

REFSPECS
REFRIGERATION SPECIALTIES LTD

100% NZ Family Owned and Operated est 2010.

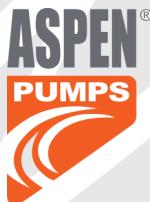
Price Catalogue



K-FLEX



Monkeytoe



SKOPE
SPARES

Danfoss

AUCKLAND

181a Station Road

Penrose,
Auckland

**North
Harbour**

3M Henry Rose Place,
Albany

HAMILTON

20 Somerset St
Frankton,
Hamilton

CHRISTCHURCH

Unit1, 9 Vulcan Place
Middleton,
Christchurch

Ph: 0800 996 003 e: sales@refspecs.co.nz

REFRIGERATION SPECIALITIES LIMITED - TERMS & CONDITIONS OF TRADE

1. DEFINITIONS

- 1.1 "Agreement" means the contractual relationship between RSL and the Customer comprised of these terms and conditions, quotations, order forms and each invoice or other document evidencing or describing any Goods.
- 1.2 "RSL" shall mean Refrigeration Specialties Limited, or any agents or employees thereof.
- 1.3 "Customer" shall mean the Customer, any person acting on behalf of and with the authority of the Customer, or any person purchasing goods and services from RSL.
- 1.4 "Goods" shall mean all goods and future goods (as those terms as defined in Part 3 of the Contract and Commercial Law Act 2017) supplied by RSL to the Customer and includes, without limitation, all services and advice provided by RSL, freight and insurance costs and all other fees or charges associated with the supply of the Goods to the Customer.
- 1.5 "Price" shall mean the cost of the Goods as agreed between RSL and the Customer and includes all disbursements e.g. charges RSL pay to others on the Customer's behalf subject to clause 5 of this contract.

2. QUOTATION

- 2.1 Where a quotation is given by RSL for Goods:
 - 2.1.1 Unless otherwise agreed the quotation shall be valid for thirty (30) days from the date of issue; and
 - 2.1.2 The quotation shall be exclusive of goods and services tax unless specifically stated to the contrary;
 - 2.1.3 RSL reserves the right to alter the quotation prior to acceptance by the Customer because of circumstances beyond its control.
- 2.2 Where Goods are required in addition to the quotation the Customer agrees to pay for the additional cost of such Goods.

3. ACCEPTANCE

- 3.1 Any instructions received by RSL from the Customer for the supply of Goods, whether by phone, in writing or authorised via the Customer's internet sales login and password, shall constitute a binding contract and acceptance of the terms and conditions contained herein.
- 3.2 When an order has been accepted by RSL, it cannot be cancelled by the Customer except with the written consent of RSL. RSL may decline any order at its discretion and shall not be required to disclose its credit criteria or the reasons for its decision.

3.3 Prior to delivering any Goods ordered, RSL may determine not to fulfill the order if it holds reasonable concerns about the creditworthiness of the Customer.

4. COLLECTION AND USE OF INFORMATION

- 4.1 The Customer authorises RSL to collect, retain and use any information about the Customer, for the purpose of assessing the Customer's credit worthiness, enforcing any rights under this contract, or marketing any Goods provided by RSL to any other party.
- 4.2 The Customer authorises RSL to disclose any information obtained to any person for the purposes set out in clause 4.1.
- 4.3 Where the Customer is a natural person the authorities under clauses 4.1 and 4.2 are authorities or consents for the purposes of the Privacy Act 1993.

5. PRICE

- 5.1 Where no price is stated in writing or agreed to orally the Goods shall be deemed to be sold at the current amount as such Goods are sold by RSL at the time of the contract.
- 5.2 The price may be increased by the amount of any reasonable increase in the cost of supply of the Goods that is beyond the control of Refrigeration Specialties between the date of the contract and delivery of the Goods.

6. PAYMENT

- 6.1 Unless otherwise agreed in writing by RSL, payment for Goods shall be made in full on delivery ("the due date").
- 6.2 The Customer may not deduct or withhold any amount (whether by way of set-off, counterclaim or otherwise) from any money owing to RSL. For the avoidance of doubt, the Customer may not withhold payment of any invoice because part of that invoice is in dispute.
- 6.3 Interest may be charged on any amount owing after the due date at the rate of 2% per month or part month.
- 6.4 Any expenses, disbursements and legal costs incurred by RSL in the enforcement of any rights contained in this contract shall be paid by the Customer, including any actual solicitor's fees or debt collection agency fees.
- 6.5 Receipt of a cheque, bill of exchange, or other negotiable instrument shall not constitute payment until such negotiable instrument is paid in full. Payment by credit card is only acceptable with the prior written agreement of RSL and where the Customer pays any applicable credit card charges.
- 6.6 A deposit may be required.
- 6.7 RSL shall be entitled to set and amend at any time, a limit on any credit arrangement offered to the Customer, and without notice to terminate or suspend any credit arrangement with Customer in the event of:
 - 6.7.1 The Customer defaulting in any term or condition contained herein; or
 - 6.7.2 The Customer's actions, statements or conduct repudiates the contract by making it clear it does not intend to perform its obligations under it, and in either event all monies owing by the Customer to Refrigeration Specialties shall be immediately due and payable notwithstanding that the time(s) for payment is yet to arrive.

7. RISK

- 7.1 The Goods remain at RSL's risk until delivery to the Customer.
- 7.2 Delivery of Goods shall be deemed complete when RSL gives possession of the Goods directly to the Customer or possession of the Goods is given to a carrier, courier, or other bailee for purposes of transmission to the Customer.

8. TITLE AND SECURITY (PERSONAL PROPERTY SECURITIES ACT 1999)

- 8.1 Title in any Goods supplied by RSL passes to the Customer only when the Customer has made payment in full for all Goods provided by RSL and of all other sums due to RSL by the Customer on any account whatsoever. To secure payment for the Goods and any other monies owed by the Customer to RSL, the Customer grants RSL:
 - 8.1.1 a purchase monies security interest in the Goods, any product into which the Goods are incorporated or comingled and in any proceeds derived from any sale or other commercial exploitation of the Goods and the products into which the Goods have been incorporated or comingled; and
 - 8.1.2 a security interest in all present and after acquired property of the Customer.
- 8.2 The Customer agrees that sections 114(1)(a), 133 and 134 of the Personal Property Securities Act 1999 shall not apply to the securities granted under these terms and waives all rights under sections 121, 125, 129, 131, 132 and 148 of the Personal Property Securities Act 1999.
- 8.3 The Customer gives irrevocable authority to Refrigeration Specialties to enter any premises occupied by the Customer or on which Goods are situated at any reasonable time after default by the Customer or before default if RSL believes a default is likely and to remove and repossess any Goods and any other property to which Goods are attached or in which Goods are incorporated. RSL shall not be liable for any costs, damages, expenses or losses incurred by the Customer or any third party as a result of this action, nor liable in contract or in tort or otherwise in any way whatsoever unless by statute such liability cannot be excluded. RSL may either resell any repossessed Goods and credit the Customer's account with the net proceeds of sale (after deduction of all repossession, storage, selling and other costs) or may retain any repossessed Goods and credit the Customer's account with the invoice value thereof less such sum as RSL reasonably determines on account of wear and tear, depreciation, obsolescence and costs.

9. PAYMENT ALLOCATION

- 9.1 RSL may in its discretion allocate any payment received from the Customer towards any invoice that RSL determines and may do so at the time of receipt or at any time afterwards and on default by the Customer may reallocate any payments previously received and allocated. In the absence of any payment allocation by RSL, payment shall be deemed to be allocated in such manner as preserves the maximum value of RSL's purchase money security interest in the Goods.

10. DEFAULT, SUSPENSION & TERMINATION

- 10.1 The following shall constitute defaults by the Customer:
 - 10.1.1 Non-payment of any sum or other amounts payable by the Customer by the due date or the Customer intimates that it will not pay any sum by the due date;
 - 10.1.2 The Customer fails to fulfil any of its other obligations under the Agreement or any obligation in any other contract between RSL and the Customer.
 - 10.1.3 Any Goods are seized by any other creditor of the Customer or any other creditor intimates that it intends to seize Goods.
 - 10.1.4 The Customer is bankrupted or put into liquidation or a receiver is appointed to any of the Customer's assets.
 - 10.1.5 A Court judgment is entered against the Customer and remains unsatisfied for seven (7) days.
 - 10.1.6 In the reasonable opinion of RSL, there is a material adverse change in the financial position of the Customer.
- 10.2 Following an event of default, all monies owing by the Customer to RSL shall be immediately due and payable notwithstanding that the time(s) for payment is yet to arrive and RSL may (without prejudice to any of its other rights and remedies) do any or all of the following:
 - 10.2.1 Suspend the delivery of Goods until such default is remedied;
 - 10.2.2 Refer any unpaid charges to a debt collection agency;
 - 10.2.3 Repossess any Goods in the Customer's possession;
 - 10.2.4 Appoint any person to be a receiver of all or any of the Goods. In addition to, and without limiting or affecting any other powers and authorities conferred on a receiver (whether under the Receiverships Act 1993 or at law or otherwise), a receiver has the power to do all things in relation to the Goods as if the receiver has absolute ownership of the Goods; and
 - 10.2.5 Terminate the Agreement provided that such termination shall not affect any accrued rights or obligations of the parties or RSL's right to take any other action in relation to any Customer default including the actions set out above.

11. WARRANTIES

- 11.1 The Goods will meet all warranties expressly provided in writing by RSL to the Customer in respect of the Goods. If any Goods fail to meet such a warranty, RSL's liability for such failure shall be limited, at the sole discretion of RSL, to:
 - 11.1.1 Refunding the purchase price for the Goods to the Customer; or
 - 11.1.2 Repairing the Goods; or
 - 11.1.3 Replacing those Goods.
- 11.2 No responsibility will be accepted for any defective Goods, supply of incorrect Goods or any under-supply of Goods, unless RSL receives reasonable notice of that defect, error or under-supply within fourteen (14) days of delivery. No claims will be accepted for defective Goods if the Goods have been converted, incorporated or comingled in any way.
- 11.3 The Customer acknowledges that to the extent it is acquiring the Goods for the purpose of a business, the provisions of the Consumer Guarantees Act 1993 and sections 9, 12A and 13 of the Fair Trading Act 1986 do not apply.
- 11.4 Subject to the preceding parts of this clause, all terms, conditions, warranties, descriptions, representations, conditions as to fitness or suitability for any purpose, tolerance to any conditions, merchantability or otherwise (whether of a like nature or not) and whether express or implied by law, trade custom or otherwise which are not expressly included in writing in the Agreement (including without limitation, those implied pursuant to Part 3 of the Contract and Commercial Law Act 2017) are expressly excluded to the full extent permitted by law.

12. LIABILITY

- 12.1 Neither RSL or the Customer shall be liable for any consequential or indirect loss nor any loss of profits, revenue, business opportunity, goodwill and/or anticipated savings of any kind whatsoever, arising from the supply of Goods by RSL to the Customer, whether suffered or incurred by the RSL, the Customer or another person and whether in contract or tort (including negligence) or otherwise.
- 12.2 If despite clause 14.1, RSL is found liable to pay compensation or damages to the Customer (whether by a court of law, arbitrator or otherwise) then RSL's total and aggregate liability (whether in contract, tort (including negligence) or otherwise) to the Customer under, or related to or arising from, the Goods or this Agreement in any way, shall in no circumstances exceed the purchase price for those Goods in respect of which, the claim arose.

13. PERSONAL GUARANTEE

- 13.1 In consideration of RSL agreeing to open a credit account and otherwise transacting business or continuing to transact business with the Customer, the person(s) who have signed above as guarantor (and where more than one, jointly and severally) ("Guarantor"):

- 13.1.1 unconditionally and irrevocably guarantees to RSL the due and punctual payment by the Customer of all amounts now or hereafter payable by the Customer to RSL under the Agreement;
- 13.1.2 as a separate and independent obligation, indemnifies RSL against any loss suffered by RSL in the event that the Agreement or any part thereof between is void or voidable or wholly or partially unenforceable or because any law may require RSL to repay to the Customer any monies received by RSL;
- 13.1.3 agrees that the liability of the Guarantor under this guarantee and indemnity will constitute a principal obligation of Guarantor and such liability will not be relieved or in any way affected in a manner prejudicial to RSL by any granting of time, waiver or forbearance to sue by RSL or by any other act, omission, matter, circumstance or law whereby Guarantor as a surety only would, but for the provisions of this clause, have been released from liability; and agrees that this guarantee and indemnity will be a continuing guarantee and indemnity and will remain in full force and effect until all payments now or at any time hereafter payable by the Customer to RSL under any Agreement between the Customer and RSL have been paid in full, including payments which are subsequently avoided or affected in any way, whether under any statutory provision or otherwise, so as to deprive RSL of the full benefit of such payment.

14. MISCELLANEOUS

- 14.1 Except in respect of the Customer's obligation to pay the purchase price or other monies due from the Customer under the Agreement, neither party shall be liable for delay or failure to perform its obligations if the cause of the delay or failure is beyond its reasonable control.
- 14.2 Unless otherwise requested in writing, the Customer consents to receiving e-mails, faxes and other communications from RSL providing the Customer with information about RSL and Goods that may be of interest to the Customer.
- 14.3 If any of the Customer's contact details change, the Customer shall promptly provide RSL with its new contact details. RSL will send the Customer notices and other communications to the last known contact details the Customer has provided.
- 14.4 Failure by RSL to enforce any of the terms and conditions contained in this contract shall not be deemed to be a waiver of any of the rights or obligations RSL has under this contract.
- 14.5 If any provision of this contract shall be invalid, void or illegal or unenforceable the validity existence, legality and enforceability of the remaining provisions shall not be affected, prejudiced or impaired.
- 14.6 The Agreement comprises the entire agreement between RSL and the Customer in respect of the supply of the Goods and, unless expressly stated otherwise in any quotation or order, all prior agreements, warranties, representations, written, verbal or otherwise, are excluded and superseded.
- 14.7 The Agreement shall be governed by the laws of New Zealand and are subject to the exclusive jurisdiction of the Courts of New Zealand.

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Refspecs now offers a full range of ActronAir products

From 2.6kW to 196kW

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06/23


ActronAir
1

Skope Spares

Refspecs is a genuine Skope Spares agent.
We stock a large range of spare parts, from Compressors and Evaporator Coils, right down to Springs, Bushes, Gaskets, Wheels and Controllers.
Call us today, with your Skope Cabinet Serial Number.

Skope Cabinet Serial Numbers.

Designed and Manufactured by

SKOPE[®]
Industries Limited



ABN: 73 374 418 306
AU: 1800 121 535
NZ: 0800 947 5673
skope@skope.com
www.skope.com

Skope Cabinet Serial Numbers start with an A, B, RC, H, HA, SK, QA, 9 or 3.

Model: SKT1000N-A : MT10GYN	Serial No: A190712345
Supply: 220-240 V a.c. 50 Hz	Year of Manufacture: 2019
Aux. Max (add to rated current): n.a.	Refrigerant: R290
Rated Current: 3.0 A	Defrost Current: n.a.
	Climatic Class: 5

Manufactured in New Zealand
SAA182706
Patent No: 603861



A190712345

If the Serial Number starts with U or H-U, this is a Refrigeration Unit number. This number can not be used to source the correct spare part listing.

Where do I find the correct Serial Number?

Upright Cabinets



ActiveCore, VF-X,
ProSpec & Pegasus
Vertical

ReFlex Upright

Underbench Cabinets



ReFlex
Underbench

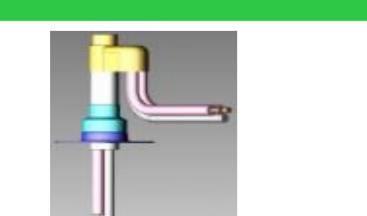
Backbar, Counterline,
ReFlex Pizza & Pegasus
Horizontal

Open Deck Cabinets



OD260, OD400

OD1100

Brazing, Dektites, Silicone					
	Stock Code	Vendors Code	Description	Unit	
Brazing Alloy					
	BA1525KG		Silver Brazing Alloy 15% 2.5mm	Kilo	
	BA1525STICK		Silver Brazing Alloy 15% 2.5mm	Stick	
	BA4515KG		Silver Brazing Alloy 45% 1.5mm	Kilo	
	BA4515STICK		Silver Brazing Alloy 45% 1.5mm	Stick	
	BAFLUX		Silver Brazing Flux 250gm	EACH	
Brazing, Torches and Accessories					
	MAPHD027	HD027	Hot Devil Trade Swirl Flame Torch Kit	EACH	
	MAPHD030	HD030	Hot Devil Trade Turbo Torch Kit	EACH	
	MAPHD033	HD033	Hot Devil Trade Twin Turbo Torch Kit		
	MAPPTV472	PTV472	Vulcane Express 472 Brazing Torch	EACH	
	MAPPAD	PTV5450	Premium Stop Flame Pad	EACH	
	MAPCOOL	GASA-1711810	Cool Gel Heat Barrier Spray 16 fl oz 0.47L	EACH	
	MAPP	GASC-MG9	MAPP Pro Gas 400g (Tall)	EACH	
Trade-Seal					
	PSTSEAL1522	TSEAL 15-22	TRADE-SEAL 15-22 mm 150 x 150 mm	EACH	
	PSTSEAL2532	TSEAL 25-32	TRADE-SEAL 25-32 mm 150 x 150 mm	EACH	
	PSTSEAL4255	TSEAL 42-55	TRADE-SEAL 42-55 mm 230 x 230 mm	EACH	
	PSTSEAL5070	TSEAL 50-70	TRADE-SEAL 50-70 mm 230 x 230 mm	EACH	
Dektites					
	IMDB0-35		Dektite 0-35mm #0	EACH	
	IMDB05-55		Dektite 5-55mm #1	EACH	
	IMDB50-70		Dektite 50-70mm #2	EACH	
	IMDB05-120		Dektite 5-127mm #3	EACH	
	IMDB110-170		Dektite 100-200mm #5	EACH	
	IMDB160-220		Dektite 125-230mm #6	EACH	
Silicone					
	CG0007		Silaseal Neutral Silicone Clear 310ml	EACH	
	CG0008		Silaseal Neutral Silicone White 310ml	EACH	
	CG0012		Toptec Duct/Galvanised Sealant 300ml	EACH	
Roof Penetration Kits					
	IMRFPN65		Top Hat Roof Flashing Kit 65mm	EACH	
	IMRFPN80		Top Hat Roof Flashing Kit 80mm	EACH	
	IMRFPN110		Top Hat Roof Flashing Kit 110mm	EACH	

Chemicals					
	Stock Code	Vendors Code	Description	Unit	
General Purpose					
	CLBIO01	ECD/1	Greenleaf Bioclean Cleaner Degreaser 1 Litre Trigger Spray	EACH	
	CLBIO05	ECD/5	Greenleaf Bioclean Cleaner Degreaser 5 Litre	EACH	
	CLBIO20	ECD/20	Greenleaf Bioclean Cleaner Degreaser 20 Litre	EACH	
Cooling Tower					
	CLAQUA05	QLF/5	Greenleaf Aquacide Microbiocide 5 Litre	EACH	
Coil Cleaners					
	CLDUCT01	R-CDD/1	Greenleaf Coil & Duct Disinfectant & Deodoriser 1 Litre Trigger Spray	EACH	
	CLDUCT05	R-CDD/5	Greenleaf Coil & Duct Disinfectant & Deodoriser 5 Litre Pack	EACH	
	CLFILT01	R-FCD/1	Greenleaf Air Filter Cleaner/Degreaser 1 Litre Trigger Spray	EACH	
	CLFILT05	R-FCD/5	Greenleaf Air Filter Cleaner/Degreaser 5 Litre Pack	EACH	
	CLCOND01	R-FCC/1	Greenleaf Foam Brite Foaming Condenser Cleaner 1 Litre Trigger Spray	EACH	
	CLCOND05	R-FCC/5	Greenleaf Foam Brite Foaming Condenser Cleaner 5 Litre Pack	EACH	
	CLCOND20	R-FCC/20	Greenleaf Foam Brite Foaming Condenser Cleaner 20 Litre Pack	EACH	
	CLEVAP01	R-ECC/1	Greenleaf Evaporator Coil Cleaner 1 Litre Trigger Spray	EACH	
	CLEVAP05	R-ECC/5	Greenleaf Evaporator Coil Cleaner 5 Litre Pack	EACH	
	CLEVAP20	R-ECC/20	Greenleaf Evaporator Coil Cleaner 20 Litre Pack	EACH	
	CLSAFE01	R-SNC/1	Greenleaf Safe N Clean Non Caustic Condenser Cleaner Trigger Spray	EACH	
Drain Pan Treatments					
	CG0009	BPT/6	Greenleaf Bio-Pan Slow Release Biocide Tablets 6/Pack	EACH	
	CLPURCOOL200	61053	PurCool Drain Pan Tablets 200/Bottle	EACH	
Ice Machine Cleaner					
	CLICE01	R-NSI/1	Greenleaf Ice Machine Cleaner One Litre	EACH	
	CLICE05	R-NSI/5	Greenleaf Ice Machine Cleaner 5 Litre	EACH	
	CLICE20	R-NSI/20	Greenleaf Ice Machine Cleaner 20 Litre	EACH	
Leak Detection					
	CMBUB01	R-BLD/1	Greenleaf Bubbles Micro Leak Detector Trigger Spray	EACH	
	CMBUB05	R-BLD/5	Greenleaf Bubbles Micro Leak Detector 5 Litre	EACH	
Coil Protection					
	CG0001	C-20BL	Coil Protectant Blue Spray 560gm Aerosol	EACH	
	CMNYALIC	NYALIC	Nyalic Protective Spray 340gm Aerosol	EACH	
Greenleaf Trigger Spray Bottle (Empty)					
	CLSPRAY	TSB/1	Spray Bottle 1 Litre - Empty	EACH	
	For MSDS Sheets please contact Refrigeration Specialties or visit www.refspecs.co.nz				

Tapes & Sealants

	Stock Code	Description	
System Sealant			
	CG0018	NuCalgon Easy Seal Direct Inject 2-10 Ton Single Shot	
	CG0022	NuCalgon Easy Seal Direct Inject fractional to 1.5 Ton	
Tapes			
	CG0011	Denso Tape 50mm x 10m Roll	
	IMT001	Black PVC Electrical/Utility Tape 48mm x 30M roll	
	IMT002	White PVC Electrical/Utility Tape 48mm x 30M roll	
	IMT005	Black PVC Electrical/Utility Tape 19mm x 20M roll	
	IMT003	Grey Duct Tape, Premium Grade Cloth/PVC 48mm x 30M roll	
	ITAPE	Kflex Foam Insulating Tape 3mm x 50mm x 9M roll	
	ITCORK	Cork Insulating Tape 3mm x 50mm x 9.1M	
	IMT004	Pure Aluminium Foil Tape 48mm x 45M roll	
Thread Sealant			
	CG0006	Nylog Blue Pipe & Thread Sealant 30ml - RT201B A viscoelastic liquid derived from refrigeration grade lubricants. Non-hardening & non-drying.	
	CG0010	"Teflon" Thread Seal Tape. 12mm x 10M roll	

Electronic Refrigeration Controllers

	Stock Code	Vendors Code	Description	
Med Temp Controllers				
	EPN001	Expert Nano 1	230v Chiller Coolroom Controller With Passive Defrost And 2HP Relay. Sensor Not Included	
	EPN007	Expert Nano 1 Snow	Same As Above But With Ice White Display	
Low Temp Nano Controller				
	EPN002	Expert Nano 3	230Vac Freezer Room Controller with forced Defrost. 1HP Comp Relay, 2kw Defrost Relay and 8(3)A Fan Relay. Sensors Not Included	
	EPN008	Expert Nano 3 Snow	Same As Above But With Ice White Display	
	EPN004	Expert Nano 4	Same As A Nano 3 But With Alarm Relay. Defrost Relay Can Also Be Configured For A Second Compressor. Sensors Not Included	
	EPN005	DIN NANO 4CK	Same As Nano 4 But Din Rail Mounted	
Enclosure for Nano Controllers				
	EPBOX	Enclosure	Enclosure for Pego Nano Controllers 100mm x 100mm x 80mm. Comes Complete With Cutout	
Low Temp Controllers				
	EP0010	ECP200 Base 4	230V Low Or Med Temp Controller With Defrost 2HP Comp Relay, 3kw Defrost Relay, 500w Fan Relay. With Alarm Or Configurable Aux Relay, Digital Input, On/Off and Room Light Switch. Large Display and IP65 Protection Rating. Includes 2 Sensors	
	EP0020	ECP200 Expert	230V Low Or Med Temp Controller With Defrost 2HP Comp Relay, 3kw Defrost Relay, 500w Fan Relay. With Alarm Or Configurable Aux Relay, Digital Input, On/Off and Room Light Switch. Large Display and IP65 Protection Rating. Complete With Isolator, RCD And Overload Includes 2 Sensors	
	EP0021	ECP200 Expert Plus	Same As ECP200 Expert Above But With Built In Datalogger Which Records The Data To A SD Card Also Has Real Time Defrost	
	EP0026	PLUS2002PLT	For Control Of Low Or Med Temp Rooms With Two Systems. Will Control Two Compressors And Two Evaporators. Can Stage the Two Units With Rotation Or Can Control With Two Set Points. Real Time Defrosts Capable Of Defrosting Evaporators Individually. Sensors Included	
Spare Board For Controllers				
	EPP100	200CHBASE4	Spare Electronic Boards for ECP200 Controllers	
	EPP117	MTE5SU16567KK16	Magneto-Thermal Overload for 200 Expert	

Electronic Controls, Sensors

	Stock Code	Vendors Code	Description	
Electronic TX Valve Controllers				
	EP0022	Expert 200 EXPEEV	230V Low Or Med Temp Controller With Defrost 2hp Comp Relay, 3kw Defrost Relay, 500w Fan Relay With PWM Pulse Driver For Controlling Electronic TX Valves. With Alarm Or Configurable Aux Relay Complete With Isolator, RCD And Overload (Does Not include sensors or pressure transmitter)	
	EP0024	PEV-Pulse	Electronic Regulator For Control Of Electronic Expansion Valve 230 Vac On/Off. Configurable With Remote Display Or Integrated Display.	
			See Castel Section In Catalogue For Pulse TX Valves	
Sensors NTC				
	EPP002	SONNTC1,5MNANO	Pego 1.5m NTC Sensor For Nano Controllers	
	EPP003	SONNTC3MPV	Pego 3m NTC Sensor	
	EPP006	SONNTC6MPV	Pego 6m NTC Sensor	
	EPP030	SONNTC30MPV	Pego 30m NTC Sensor	
Magnetic Door Switch				
	EP0030	MicroP	MicroP is a magnetic door switch compatible with all Pego and other electronic controllers with low voltage digital input. The simplicity of installation and its technology make it the ideal accessory for cold room management.	
Pressure Transmitters				
	EPP112	SONOT1012	Pressure Transmitter 0-12 bar, 4-20ma Output 1/4" Female Flare Connection	
	EPP113	SONOT1030	Pressure Transmitter 0-30 bar, 4-20ma Output 1/4" Female Flare Connection	
Humidity Transmitter				
	SHP001	SONNEE16FA21	Room Humidity Probe 4-20mA 0-100% RH	
Man In Coolroom Alarm & Emergency lighting				
	EP0001	100APE03	Pego Man In Coolroom Alarm with battery backup	
	EPP102	100APEPUL	Replacement Push Button For Man In Coolroom	
	EP0029	200LEDEM	Pego Emergency Lighting. Coolroom Exit lighting with battery backup	
Steam Humidifiers				
	SH0003	ES-3-M-N	Easysteam 3KG Steam Humidifier 230V Single Phase	
	SHP006	ES-6-M-N	Easysteam 6KG Steam Humidifier 230V Single Phase	
	SHP007	400UMFAN100	Fan Deck Unit For 3Kg and 6kg Humidifier	
	SHP003	UMITUBVAPS2	25mm Steam Hose	
Please note that humidifiers are Indent Only				

Pego Electrical Panels

	Stock Code	Vendors Code	Description	
ECP04 Electrical Boards				
	EPC020	1004 E 001	Electrical Boards Suitable For Control Of Three-Phase Condensing Units Up To 1-3 HP. 3PH Compressor Contactor And Motor Overload And Two Single Phase Condensing Fans.	
ECP07 Electrical Boards				
	EPC072	10007 E 003	Electrical Boards Suitable For Control Of Three-Phase Condensing Units Up To 7 HP. 3PH Compressor Contactor And Motor Overload And Two Single Phase Condensing Fans.	
ECP10 Electrical Boards				
	EPC101	10007 E 002	Electrical Boards Suitable For Control Of Three-Phase Condensing Units Up To 10 HP. 3PH Compressor Contactor And Motor Overload And Two Single Phase Condensing Fans.	
ECP15 Electrical Boards				
	EPD205	10015B02	Electrical Boards Suitable For Control Of Three-Phase Condensing Units Up To 20 HP 3PH Compressor Contactor And Motor Overload With Two Three Phase Condensing Fan Outputs.	
ECP300 Controller Complete With Electrical Panel				
	EPD030	ECP300 Expert VD4	All In One Control And Safety. Controller & Electrical Board For 3PH Units Up To 4HP Outputs For 6kw Of Defrost, Evaporator Fans, Condenser Fans Plus Room Light And Alarm Relays Includes 2 sensors (Indent Only)	
	EPD075	ECP300 Expert VD7	All In One Control And Safety. Controller & Electrical Board For 3PH Units Up To 4-7HP Outputs For 9kw Of Defrost, Evaporator Fans, Condenser Fans Plus Room Light & Alarm Relays. Includes 2 sensors (Indent Only)	

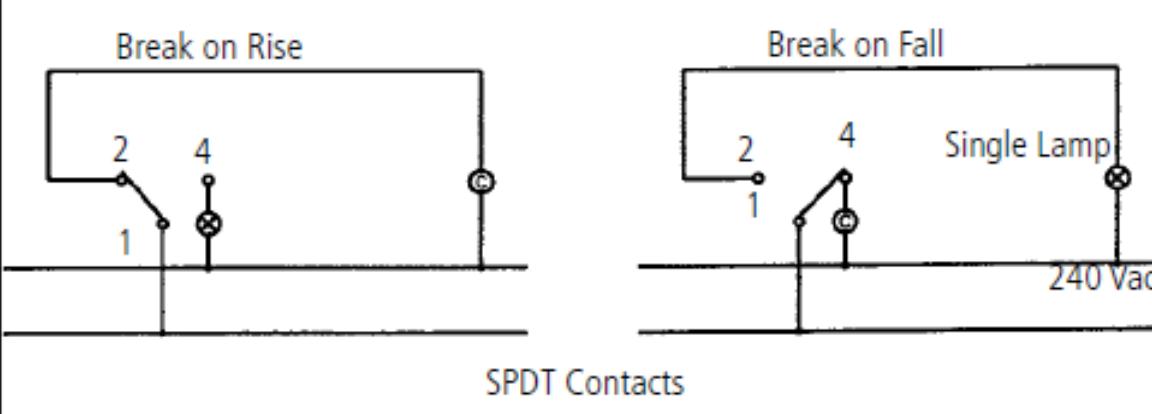
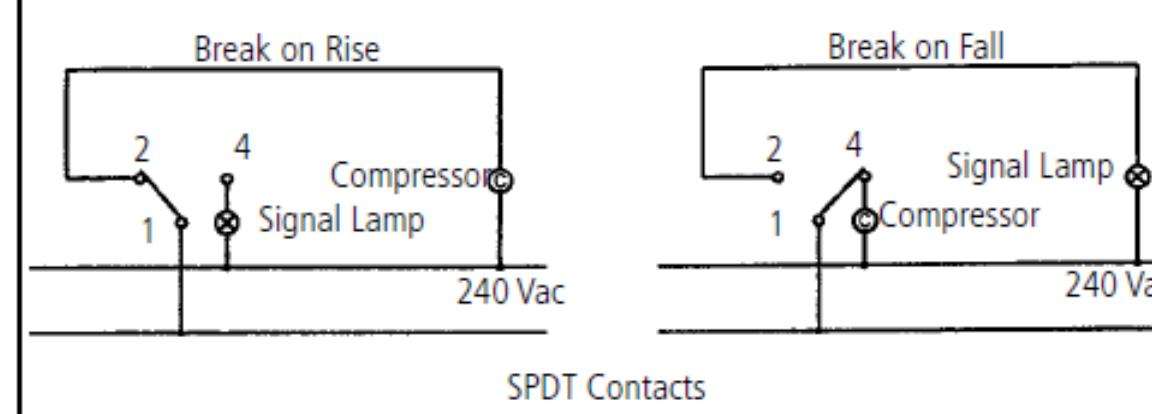
Full Gauge Electronic Refrigeration Controls

	Stock Code	Vendors Code	Description	
Med Temp Refrigeration Controllers				
	CEMT-512EL2HP	MT-512EL 2HP	12V/24vdc Chiller Coolroom Controller With Passive Defrost. 2HP Relay. Includes Sensor	
	CEMT-512E2HP	MT-512EW2HP	230v Chiller Coolroom Controller With Passive Defrost 2HP Relay. Includes Sensor	
	CEMT-512E LOG/09	MT-512E LOG	230v Chiller Coolroom Controller with Passive defrost, Data Logging 2HP Relay. Includes Sensor. RS485 Communication for Sitrad	
Low Temp Refrigeration Controllers				
	CETC-900EW POWER	TC-900EW POWER	230Vac Freezer Room Controller with forced defrost. 1HP Comp Relay, 2kw Defrost Relay and 5(3)A Fan Relay Two Sensors Included	230v
	CETC-900E LOG	TC-900E LOG	230Vac Freezer Room Controller with forced defrost. 1HP Comp Relay, 2kw Defrost and 5(3)A Fan Relays Two Sensors Included. RS485 Communication for Sitrad	230v
	CETC-940Ri Plus	TC-940Ri Plus	24v Freezer Controller With Forced Defrost 5A(3) 250v 1/8 HP relays with alarm relay and digital input. Includes Two Sensors & 230-24V Transformer. RS485 Communication for Sitrad	
	CETI-33i Plus	TI-33i Plus	230V Thermometer with up to 3 sensors. Will display individual, average and differential temperature between its three sensors. Includes One Sensor. RS485 Communication for Sitrad	
Pressure Staging Controllers				
	CEPCT-100	PCT-100I	230v Single Stage Pressure Controller 0-100 or 0-500 psi Includes Pressure Transducer.	
	CEPCT-410RI PLUS	PCT-410i Plus	230v Four Stage Pressure Controller 0-100 or 0-500psi Does not include pressure transmitter.	
Airconditioning Controllers				
	CETIC-17RGTI	TIC-17RGTi	230V Basic Heating or Cooling Controller. 16A(8) Relay	
	CEMT516E	MT-516E	230V 2 x Stage Temperature Controller Can Be Configured for 2 Stage Heat, 2 Stage Cool, or 1 Heat & 1 Cool. 8A(3) Relays. RS485 Communication for Sitrad	
	CEMT-543RiPLUS	MT 543ri Plus	230V 3 x Stage Temperature controller. Fully configurable for 2 Heat & 1 Cool or 2 Cool & 1 Heat, or 3 Stages Heat or Cool. Third Output Can Also Be Configured As An Alarm Output. 8A(3) Relays	
	CEMT-530Super	MT-530E Super	230V Humidity And Temperature Controller With Separate Humidity And Temperature Outputs And A Third Configurable Output.	

Electronic Refrigeration Controls, Sensors

	Stock Code	Vendors Code	Description	
Sensors				
	CESEN025	SB19	2.5 Metre 10K NTC Sensor -50 to 105deg C	
	CESEN050	SB19	5 Metre 10K NTC Sensor -50 to 105deg C	
	CESEN100	SB19	10 Metre 10K NTC Sensor -50 to 105deg C	
	CESB59	SB59	2.5 Metre High Temp 10k NTC Sensor up to 200deg C For use with the TIC-17RGT Controller	
Pressure Transmitters				
	CESB69-100V	SB69-100V	Pressure Transmitter 0-100psi, 0-5vdc output 1/4" Male Flare 1 Metre Cable	
	CESB69-500V	SB69-500V	Pressure Transmitter 0-100psi, 0-5vdc output 1/4" Male Flare 1 Metre Cable	
Enclosure for MT & TC Controllers				
	EPBOX	Enclosure	Enclosure for Full Gauge Controller 100 x 100 x 80 With Cutout	
Sitrad Supervisory System Components				
   	Sitrad	Sitrad Software	Supervisory System software.	
	CEINBOX	3847	Sitrad InBox is the solution for installations that require remote management in real time. Sitrad InBox already has the Sitrad Pro software installed, acting as the local server.	
	CEFGWI	FG-WI	Wireless Convertor. Allows connecting a network of controllers to Sitrad supervisory system PC using a RF signal. Connection between the controllers is by means of RS485 serial connection.	
	CEFGCONV32	Conv32	RS485 to USB Convertor. Converts the RS485 serial connection from the network of controllers to USB for connection to the PC and the Sitrad Supervisory system.	
	CETCP-485WIFI	TCP-485 WiFi	This converter enables communication between the controllers and Sitrad through a WiFi data network using the standard TCP/IP communication.	

Ranco Pressure Switches

	Stock Code	Vendors Code	Description	
Pressure Switches				
	CP0003	016-8706	Ranco LP Pressure Switch, Auto Reset, Range -30 - 700kpa SPDT Contacts	
	CP0004	016-8705	Ranco LP Pressure Switch, Manual Reset, Range -30 - 700kPa SPDT Contacts	
	CP0059	016-8750	Ranco HP Pressure Switch, Auto Reset, Range 690kpa - 3000kpa SPDT Contacts	
	CP0013	016-8751	Ranco HP Pressure Switch, Man Reset, Range 690kpa - 3000kpa SPDT Contacts	
	CP0057	017-8701	Ranco Dual pressure LP/HP Pressure Switch, Auto Reset LP Range -30KPA - 700KPA HP Range 690kpa - 3000kpa SPDT Contacts	
	CP0023	017-8705	Ranco Dual pressure LP/HP Pressure Switch, Man Reset on HP LP Range -30KPA - 700KPA HP Range 690kpa - 3000kpa Man Reset SPDT Contacts	
Pressure Switch Brackets & Covers				
	CPANG	31696-1	Ranco Angle Bracket	
	CTFLAT	48129-3	Ranco Flat Mounting Bracket	
	CPCOVERS	3600254004	Single Pressure Switch Cover	
	CPCOVERD	3600253006	Dual Pressure Switch Cover	
Oil Failure Switches				
	CP0051	P30-3701-70	Ranco Oil Differential Pressure Oil Failure Switch Range 0.3 - 4bar Man Reset Time Delay 90 Seconds	
	CP0050	P30-3601-070	Ranco Oil Differential Pressure Oil Failure Switch Range 0.3 - 4bar Man Reset Time Delay 60 Seconds	
	CP0052	P30-3801-80	Ranco Oil Differential Pressure Oil Failure Switch Range 0.3 - 4bar Man Reset Time Delay 120 Seconds	
<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p>Wiring Diagrams for 016 Series Note: Fuse Rating 16 AMPS</p>  </div> <div style="width: 45%;"> <p>Wiring Diagrams for 017 Series Note: Fuse Rating 16 AMPS</p>  </div> </div>				

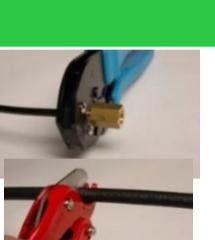
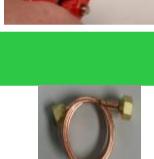
Ranco Thermostats

	Stock Code	Vendors Code	Description																																																																																																								
Domestic Thermostats																																																																																																											
	CT0101	VC-1	Single Temp Cabinet Thermostat																																																																																																								
	CT0102	VA-2	Absorption Cabinet Thermostat																																																																																																								
	CT0103	VF-3	Freezer Thermostat																																																																																																								
	CT0104	VP-4	Push Button Defrost Thermostat																																																																																																								
	CT0106	VR-6	Freezer Signal Thermostat																																																																																																								
	CT0107	VB-7	Bottle Cabinet Thermostat																																																																																																								
	CT0108	VW-8	Window Airconditioner Thermostat																																																																																																								
	CT0109	VT-9	Dual Temperature Thermostat																																																																																																								
	CT0110	VTD-9	Dual Temperature Thermostat, with Bypass Valve																																																																																																								
	Commercial Thermostats																																																																																																										
	CT0010	016-6950	Ranco Thermostat -35°C to -7°C, 2m Capillary, Coiled SPDT Contacts																																																																																																								
	CT0011	016-6951	Ranco Thermostat -18°C to +13°C, 2m Capillary, Coiled SPDT Contacts																																																																																																								
	CT0012	016-6954	Ranco Thermostat -5°C to +25°C, 2m Capillary, Coiled SPDT Contacts																																																																																																								
	CT0013	016-6924-101	Ranco Thermostat -5°C to +25°C, 2m Capillary, Straight SPDT Contacts																																																																																																								
	CT0014	016-6980	Ranco Thermostat -18°C to +13°C, 2m Capillary, Cross Ambient Bulb SPDT Contacts																																																																																																								
	CT0015	016-6981	Ranco Thermostat -5°C to +25°C, 2m Capillary, Cross Ambient Bulb SPDT Contacts																																																																																																								
	CT0016	016-6983	Ranco Thermostat +10°C to +40°C, 2m Capillary, Cross Ambient Bulb SPDT Contacts																																																																																																								
	CT0017	018-1100	Ranco Ice Thermostat 0°C, 2m Capillary With Bulb SPDT Contacts																																																																																																								
	CT0019		3m Probe for Ice Bank Control																																																																																																								
	<table border="1"> <thead> <tr> <th>Part No.</th><th>Application</th><th>Cold Out °C</th><th>Cold In °C</th><th>Warm Out °C</th><th>Warm In °C</th><th>Defrost Term. °C</th><th>Signal Op. °C</th><th>Cap. Length mm</th></tr> </thead> <tbody> <tr> <td>VC 1</td><td>Compressor Refrig.</td><td>-23</td><td>-14.5</td><td></td><td>2</td><td></td><td></td><td>1200</td></tr> <tr> <td>VA 2</td><td>Electric Absorption Refrigerator</td><td>-18</td><td>-14.5</td><td></td><td>3.5</td><td></td><td></td><td>2000</td></tr> <tr> <td>VF 3</td><td>Freezer and Ice Cream Cabinet</td><td>-34</td><td></td><td>-16.5</td><td>-12</td><td></td><td></td><td>2000</td></tr> <tr> <td>VP 4</td><td>Push Button Compressor Refrig.</td><td>-25</td><td></td><td>-10.4</td><td>-4</td><td>5.5</td><td></td><td>1200</td></tr> <tr> <td>VS 5</td><td>Freezer with Standard Signal</td><td>-34</td><td></td><td>-16.5</td><td>-12</td><td></td><td>Cut-In 5 Above Cut-In</td><td>2000</td></tr> <tr> <td>VR 6</td><td>Freezer with Reverse Signal</td><td>-34</td><td></td><td>-16.5</td><td>-12</td><td></td><td>Cut-Out 5 Above Cut-In</td><td>2000</td></tr> <tr> <td>VB 7</td><td>Bottle or Beverage Cooler</td><td>-3</td><td>2</td><td></td><td>12.5</td><td></td><td></td><td>1200</td></tr> <tr> <td>VW 8</td><td>Window Air Conditioner</td><td>15</td><td>18</td><td></td><td>34</td><td></td><td></td><td>1200</td></tr> <tr> <td>VT 9</td><td>Two Temperature Refrigerator</td><td>-26</td><td></td><td>-11</td><td></td><td></td><td>3.5 Con. Cut-In</td><td>1200</td></tr> <tr> <td>VX 0</td><td>Refrigerator Forced Draft Coil</td><td>-15</td><td></td><td>-5</td><td></td><td></td><td></td><td>1500</td></tr> </tbody> </table>									Part No.	Application	Cold Out °C	Cold In °C	Warm Out °C	Warm In °C	Defrost Term. °C	Signal Op. °C	Cap. Length mm	VC 1	Compressor Refrig.	-23	-14.5		2			1200	VA 2	Electric Absorption Refrigerator	-18	-14.5		3.5			2000	VF 3	Freezer and Ice Cream Cabinet	-34		-16.5	-12			2000	VP 4	Push Button Compressor Refrig.	-25		-10.4	-4	5.5		1200	VS 5	Freezer with Standard Signal	-34		-16.5	-12		Cut-In 5 Above Cut-In	2000	VR 6	Freezer with Reverse Signal	-34		-16.5	-12		Cut-Out 5 Above Cut-In	2000	VB 7	Bottle or Beverage Cooler	-3	2		12.5			1200	VW 8	Window Air Conditioner	15	18		34			1200	VT 9	Two Temperature Refrigerator	-26		-11			3.5 Con. Cut-In	1200	VX 0	Refrigerator Forced Draft Coil	-15		-5			
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VP 4	Push Button Compressor Refrig.	-25		-10.4	-4	5.5		1200																																																																																																			
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VX 0	Refrigerator Forced Draft Coil	-15		-5				1500																																																																																																			

Danfoss Pressure Switches/THERMOSTATS; Thermometer

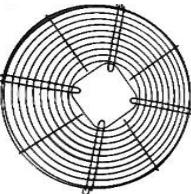
	Stock Code	Vendors Code	Description	
Pressure Switches				
	CP0001	060-110166	Danfoss KP1 LP Switch, Auto Reset Range -20kpa -750kpa	
	CP0010	060-117166	Danfoss KP5 HP Switch, Auto Reset Range 800kpa - 3200kpa SPDT Contacts	
	CP0011	060-117366	Danfoss KP5 HP Switch Man Reset Range 800kpa - 3200kpa SPDT Contacts	
	CP0020	060-126466	Danfoss KP15 HP/LP Switch Manual Reset. LP Range - 20kpa - 750kpa HP Range 800kpa - 3200kpa 2 SPST(NC) Contacts	
	CP0021	060-126566	Danfoss KP15 Dual Pressure HP/LP Pressure Switch Man Reset on HP LP Range 20kpa - 750kpa HP Range 800kpa - 3200kpa Man Reset SPDT+SPST(NO)	
	Encapsulated Non Adjustable LP & HP Pressure Switches			
	EPP157	P100LP-0520-L	LP Pressure Switch Off At 5psi And On At 20psi Auto Reset	
	EPP158	P100LP-3560-L	LP Pressure Switch Off At 35psi On At 60psi Auto Reset	
	EPP159	P100HP-3020-I	HP Pressure Switch Off At 300psi On At 200psi Auto Reset	
	EPP160	P100HP-4100-L	HP Pressure Switch Off At 400psi On At 300psi Auto Reset	
	EPP161	P100HP-4030-L	HP Pressure Switch Off At 400psi Can Be Manually Reset At 300psi	
	Thermostats			
	CT0001	060L110066	Danfoss KP61 Thermostat -30°C +15°C 2m Capillary Straight SPDT Contacts	
	CT0002	060L111266	Danfoss KP69 Thermostat -5°C +35°C 2m Capillary Coiled Sensor SPDT Contacts	
	CT0003	060L111366	Danfoss KP71 Thermostat -5°C +20°C 2m Capillary Tube Sensor SPDT Contacts	
	CT0004	060L114366	Danfoss KP73 Thermostat -25°C +15°C 2m Capillary Tube Sensor SPDT Contacts	
	Dial Thermometer			
	DT0100		Dial Thermometer 100mm -40° -- +40° C. 3m Capillary with optional rear or bottom entry. Black ABS case for face or rear mounting	

Errecinque Plastic Capillary Hoses

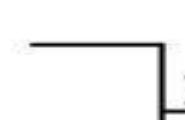
	Stock Code	Vendors Code	Description	Per	
Capillary Plastic Hose					
	PT002AZ	070/01.50-AZ	ERRECINQUE Blue Tube 2mm	Metre	
	PT002B	070/01.50	ERRECINQUE Black Tube 2mm	Metre	
	PT002R	070/01.50-RED	ERRECINQUE Red Tube 2mm	Metre	
	PT004B	070/03.50	ERRECINQUE Black Tube 4mm	Metre	
	PT0006	070/05.50-CO2	ERRECINQUE 1/4" Hose 4.4 x 9.7mm - CO ₂	Metre	
	PT0009	070/07.5	ERRECINQUE Black Tube 3/8"	Metre	
Crimp Fittings					
	PTRF0001	RF0001	ERRECINQUE Female Straight Fitting 1/4" Flare 2mm Hose	Each	
	PTRF0002	RF0002	ERRECINQUE Female Straight Fitting 1/4" Flare w/Depressor 2mm Hose	Each	
	PTRF0011	RF0011	ERRECINQUE Female 90 Deg Elbow 1/4" Flare 2mm Hose	Each	
	PTRF0012	RF0012	ERRECINQUE Brass Crimp Tee 2mm	Each	
	PTRF0114	RF0114	ERRECINQUE Brass Nut 1/4" Flare 2mm	Each	
	PTRF0117	RF0117	ERRECINQUE Tee Central Nut 1/4" Flare Short 2mm	Each	
	PTRF0118	RF0118	ERRECINQUE Tee Lateral Nut 1/4" Flare Short 2mm	Each	
	PTRFV010	RFV010	ERRECINQUE Female Straight Fitting 1/4" Flare 4mm Hose	Each	
	PTRFV241	RFV241	ERRECINQUE Female Long Straight Fitting 1/4" Flare 4mm Hose	Each	
	PTRFV437	RFV437	ERRECINQUE Female Straight Fitting 1/4" Flare w/Depressor 4mm Hose	Each	
	PTRFV115	RFV115	ERRECINQUE Female 90 Deg Elbow 1/4" Flare 4mm Hose	Each	
	PTRF0008	RF0008	ERRECINQUE Aluminium Sleeve 2mm & 4mm Hose	Each	
	PTRFS062	RFS062	ERRECINQUE Female Straight Fitting 1/4" Flare 1/4" Hose - CO ₂ 120Bar	Kit	
	PTRFS065	RFS065	ERRECINQUE Female 90 Elbow 1/4" Flare 1/4" Hose - CO ₂ 120Bar	Kit	
	PTA		Custom Hose Assembly Charge		
	PTRFY073	RFY073	ERRECINQUE Female Straight Fitting 3/8" Flare 3/8" Hose	Kit	
	PTRFY077	RFY077	ERRECINQUE Female 90 Deg Elbow 3/8" Flare 3/8" Hose	Kit	
	PTRFY468	RFY468	ERRECINQUE Male Straight Fitting 3/8" Flare 3/8" Hose	Kit	
Complete Pre-Made Hose					
	PT4450	F03032	ERRECINQUE 4mm Hose Assembly 450mm long 1/4 FF straight x 90	Assembly	
Accessories					
	PTRFAT01	RFAT01	ERRECINQUE Crimping Tool 2mm	Each	
	PTRFC007	RFC007	ERRECINQUE Depressors 2 & 4mm	Each	
	BFG006	7580/2	Copper Gaskets 1/4" - 2 & 4mm	Each	
Copper Capillary Connectors					
	CPCAPIL		Copper Pressure Control Capillary Connector	Each	

Airconditioning Thermostats

	Stock Code	Vendors Code	Description	
Basic Room Thermostat				
	CR0030	RAA30	Basic Electromechanical Room Thermostat Heating Only/ Cooling Only With On/Off Switch Setting Range 8...30C with lockable knob. AC 24v-250v 0.2-6 Switch Contacts Amp Contacts	
	CT0153	ARS-630	Saginomiya Room Thermostat Two Stage Auto Change Over Dial Knob Adjustment. Dial Stopper Screw to prevent unauthorised changes Range 10 to 30° C Differential 1.5°C Fixed	
	CT0154	SG831	Saginomiya Mounting Plate to suit ARS-630	
Airconditioning Controllers				
	CETIC-17RGTi	TIC-17RGTi	230V basic heating or cooling controller. Relay 250V 16A(8)	
	CEMT516E	MT-516E	230V 2 x relay output controller Can be configured for 2 stage heat, 2 stage cool, or 1heat/1 cool. Relays 250V 8A(3) 250V	
	CEMT-530Super	MT-530Super	230V Humidity and Temperature controller with separate humidity and temperature outputs, and a configurable third output.	

Defrost Controls				
	Stock Code	Vendors Code	Description	
Paragon Defrost Controls				
	CP0100	8145-21	Time Initiated, Externally Temp or Pressure Terminated Externally. 1-6 Defrosts per 24 Hours & 4 Hours Between Defrosts Minimum SPDT 250V 25 amp 2 HP Contacts	
	CP0102	8045-21	Time Initiated, Time Terminated 1-6 Defrosts per 24 Hours & 3 Hours Between Defrosts Minimum SPDT 250V 25 amp 2 HP Contacts	
	CP0103	632-21	Time Initiated, Time Terminated With Fan Delay 1-8 Defrosts per 24 Hours & 4 Hours Between Defrosts Minimum SPDT 250V 10 amp Contacts	
	CP0104	8245-21	Time Initiated, Pressure Terminated 1-8 Defrosts per 24 Hours & 4 Hours Between Defrosts Minimum Adjustable End Defrost Pressure 36-110 psi SPDT 250V 10 amp Contacts	
Fan Blades				
	FB0170	Φ170FAN	170mm Fan Blade	
	FB20028	FB200/28	200mm Henry Fan Blade 28°	
	FB0200	Φ200FAN	200mm Fan Blade	
	FB23028	FB230/28	230mm Henry Fan Blade 28°	
	FB0230	Φ230FAN	230mm Fan Blade	
	FB0250	Φ250FAN	250mm Fan Blade	
	FB30025	FB30025	300mm Henry Fan Blade 25°	
	FB30028	FB30028	300mm Henry Fan Blade 28°	
	FB0300	Φ300FAN	300mm Fan Blade	
Brackets				
	FA0072	H72BRACKET	Bracket H72mm	
	FA0084	H84BRACKET	Bracket H84mm	
	FA0109	H109BRACKET	Bracket H107mm	
Grille Mount				
	FAG170	Φ170GRID	170mm Grille Mount	
	FAG200	Φ200GRID	200mm Grille Mount	
	FAG230	Φ230GRID	230mm Grille Mount	
	FAG250	Φ250GRID	250mm Grille Mount	
	FAG300	Φ300GRID	300mm Grille Mount	
Ring Mount				
	FAR170	Φ170RING	170mm Ring Mount	
	FAR200	Φ200RING	200mm Ring Mount	
	FAR230	Φ230RING	230mm Ring Mount	
	FAR250	Φ250RING	250mm Ring Mount	

Fans, Motors & Blades

	Stock Code	Vendors Code	Description	
Basket Guard External Rotor Fans - 4 Pole Induced (unless otherwise stated)				
	FE0200		200mm External Rotor Fan 220V 50HZ	
	FE0250		250mm External Rotor Fan 220V 50HZ	
	FE0300		300mm External Rotor Fan 220V 50HZ	
	FE0350		350mm External Rotor Fan 220V 50HZ	
	FE0400		400mm External Rotor Fan 220V 50HZ	
	FE0450		450mm External Rotor Fan 220V 50HZ	
	FE0500		500mm External Rotor Fan 220V 50HZ	
	FE2630		630mm External Rotor Fan 220V 50HZ	
	FE2300		300mm External Rotor Fan 400V 3Ph 50Hz	
	FE1500		500mm External Rotor Fan 400V 3Ph 50Hz	
	FE1600		600mm External Rotor Fan 400V 3Ph 50Hz	
	FE0630		630mm External Rotor Fan 400V 3Ph 50Hz	
Basket Guard External Rotor Fans - 4 Pole				
	FE1250		250mm External Rotor Fan 220V 50HZ - Blower	
	FE1300		300mm External Rotor Fan 220V 50HZ - Blower	
	FE2350		350mm External Rotor Fan 220V 50HZ - Blower	
Basket Guard External Rotor Fans - Suits Models Specified				
	FE3400		400mm External Rotor Fan 220V 50HZ - 6 Pole Suits Refspecs Packs	
	FEBM300		300mm EBM External Rotor Fan 220V Suits HEA 300 Series	
	FEBM400		400mm EBM External Rotor Fan 220V Suits HEA 400 Series	
	FE2450		450mm External Rotor Fan 220V 50HZ - 6 Pole Suits Hispania Packs	
	FE3350		350mm External Rotor Fan 220V 50HZ Suits Hispania HED Models	
	FE4400	Flat Guard	400mm External Rotor Fan 220V 50HZ Suits Hispania HEA40XX Models	
5W-60W Fan Motors				
    	FS0001	SM-672	5W Universal Motor Kit c/w blades	
	FS0005	5W	5W Fan Motor	
	FSH005	5W	5W Motor - Suits Hispania HEJ Evaporators	
	FS0007	7W	7W Fan Motor Saiwei	
	FS0010	10W	10W Fan Motor	
	FS0016	16W	16W Fan Motor	
	FS0025	25W	25W Fan Motor	
	FS0034	34W	34W Fan Motor	
	FS0040	40W	40W Dual Shaft Motor Fasco	
	FS0060	60W	60W Dual Shaft Motor Fasco	
	FWD012	ECR01B0521	Henry 12W ECR01 Fan Motor 1300rpm with speed control & timed reverse	
	FWD020	ECR01B0193	Henry 20W ECR01 Fan Motor 1300rpm with speed control & timed reverse	
Wiring for External Rotor Motors				
	BLUE	X	220V	
	RED	C	SUPPL	
	BROWN	X	LINE	
	GREEN/YELLOW	X		
SINGLE PHASE WIRING DIAGRAM				
	BLUE	X	3 ~	
	RED	X	380V	
	BROWN	X		
	GREEN/YELLOW	X		
THREE PHASE WIRING DIAGRAM				

Brass Fittings, Nuts & Unions

	Stock Code	Vendors Code	Description	SWP	
Flare Nuts					
	BF0006	7010/22	Flare Nut 1/4"	50	
	BF0008	501-0505	Flare Nut 5/16"		
	BF0009	7010/33	Flare Nut 3/8"	50	
	BF0012	7010/44	Flare Nut 1/2"	50	
	BF0016	7010/55	Flare Nut 5/8"	50	
	BF0019	7010/66	Flare Nut 3/4"	50	
	BF0022	7010/77	Flare Nut 7/8"	50	
	BF1006	7020/20	Flare Cap Nut 1/4"	140	
	BF1008	A04758	Flare Cap Nut 5/16"		
Flare Swivel Unions					
	BF2006	7050/2	Flare Swivel Unions 1/4"	50	
	BF2009	7050/3	Flare Swivel Unions 3/8"	50	
	BF2012	7050/4	Flare Swivel Unions 1/2"	50	
	BF2016	7050/5	Flare Swivel Unions 5/8"	50	
Flare Sweat Adapters					
	VS6006	9900/X58	Castel 1/4" Flare Nut for Adapter	140	
	VS6007	9900/X62	Castel 1/4" Stem Adapter		
	VS6004	9900/X59	Castel 3/8" Flare Nut for Adapter	140	
	VS6005	9900/X63	Castel 3/8" Stem Adapter		
	VBA9901X18	9901/X18	Castel 1/2" Flare / ODS Adaptor	140	
	VBA9901X14	9901/X14	Castel 5/8" Flare / ODS Adaptor	140	
	VBA9901X19	9901/X19	Castel 3/4" Flare / ODS Adaptor	140	
Flare Unions					
	BF3006	7110/2	Flare Union 1/4"	140	
	BF3008	A00326	Flare Union 5/16"		
	BF3009	7110/3	Flare Union 3/8"	140	
	BF3012	7110/4	Flare Union 1/2"	140	
	BF3016	7110/5	Flare Union 5/8"	140	
	BF3019	7110/6	Flare Union 3/4"	140	
Flare- NPT Unions					
	BF4006	7130/2	Flare - NPT Union 1/4" x 1/4"	120	
	BF4008	A00331	Flare - NPT Union 5/16" x 1/8"		
	BF4108	A05036	Flare - NPT Union 5/16" x 1/4"		
	BF4009	7130/3	Flare - NPT Union 3/8" x 3/8"	120	
	BF4012	7130/4	Flare - NPT Union 1/2" x 1/2"	120	

Brass Fittings, Unions & Access Ports

	Stock Code	Vendors Code	Description	SWP	
Flare Plugs					
	BFA006	7510/2	Flare Plug 1/4"	140	
	BFA009	7510/3	Flare Plug 3/8"	140	
	BFA012	7510/4	Flare Plug 1/2"	140	
Flare Bonnets					
	BFB006	7560/2	Flare Bonnet 1/4"	45	
	BFB008	1105-05	Flare Bonnet 5/16"		
	BFB009	7560/3	Flare Bonnet 3/8"	45	
	BFB012	7560/4	Flare Bonnet 1/2"	45	
	BFB016	7560/5	Flare Bonnet 5/8"	45	
	BFB019	7560/6	Flare Bonnet 3/4"	45	
Pipe Plug NPT					
	BFD003	7520/1	Pipe Plug NPT 1/8"	120	
	BFD006	7520/2	Pipe Plug NPT 1/4"	120	
	BFD009	7520/3	Pipe Plug NPT 3/8"	120	
	BFD012	7520/4	Pipe Plug NPT 1/2"	120	
Male/Female Flare Reducing Union					
	BFF0609	7150/23	Male/Female Flare Reducing Union 1/4" x 3/8"	140	
	BFF0612	7150/24	Male/Female Flare Reducing Union 1/4" x 1/2"	140	
	BFF0906	7150/32	Male/Female Flare Reducing Union 3/8" x 1/4"	140	
	BFF0912	7150/34	Male/Female Flare Reducing Union 3/8" x 1/2"	140	
	BFF1209	7150/43	Male/Female Flare Reducing Union 1/2" x 3/8"	140	
	BFF1216	7150/45	Male/Female Flare Reducing Union 1/2" x 5/8"	140	
	BFF1612	7150/54	Male/Female Flare Reducing Union 5/8" x 1/2"	140	
Flare Gaskets					
	BFG006	7580/2	Flare Gasket 1/4"	140	
	BFG008	1110-05	Flare Gasket 5/16"		
	BFG009	7580/3	Flare Gasket 3/8"	140	
	BFG012	7580/4	Flare Gasket 1/2"	140	
	BFG016	7580/5	Flare Gasket 5/8"	140	
	BFG019	7580/6	Flare Gasket 3/4"	140	
Flare - NPT Reducing Unions					
	BFN0603	7140/21	Flare - NPT Reducing Union 1/4" x 1/8"	120	
	BFN0906	7140/32	Flare - NPT Reducing Union 3/8" x 1/4"	120	
	BFN0912	7140/34	Flare - NPT Reducing Union 3/8" x 1/2"	120	
	BFN1209	7140/43	Flare - NPT Reducing Union 1/2" x 3/8"	120	
	BFN1612	7140/54	Flare - NPT Reducing Union 5/8" x 1/2"	120	
Reducing Flare Unions					
	BFR0609	7120/23	Reducing Flare Union 1/4" x 3/8"	140	
	BFR0612	7120/24	Reducing Flare Union 1/4" x 1/2"	140	
	BFR0912	7120/34	Reducing Flare Union 3/8" x 1/2"	140	
	BFR0916	7120/35	Reducing Flare Union 3/8" x 5/8"	140	
	BFR1216	7120/45	Reducing Flare Union 1/2" x 5/8"	140	
	BFR1219	7120/46	Reducing Flare Union 1/2" x 3/4"	140	
	BFR1619	7120/56	Reducing Flare Union 5/8" x 3/4"	140	

Brass Fittings, Elbows & Tees

	Stock Code	Vendors Code	Description	SWP	
Access Ports etc					
	VM0006	8350/X03	Access Port 1/4" Sweat w/ 60mm Tail	120	
	VM1006	8351/X04	Access Port 1/4" Sweat	140	
	VM1008	8351/X05	Access Port 5/16" Sweat	140	
	VM2003	8354/21	Access Port 1/8" NPT	120	
	VM2006	8354/22	Access Port 1/4" NPT	120	
	VM2009	8354/23	Access Port 3/8" NPT	120	
	VM3006	8380/X06	Access Tee 1/4" Schrader	45	
	VM9001	8392/B	1/4 Access Port Valve Cap w/ Remover	80	
	VM9002	8395/A1	Castel Schrader Valve Core	50	
	VM9003	8395/A4	CO2 Schrader Valve Core 80Bar (CO2)	80	
	VM9004		5/16 Schrader Cap & O Ring - 410A		
	LT0001	BPV31D	Bullet Piercing Valve 1/4 5/16 3/8		
Cylinder Adaptors					
	BF5006	7154/2	Cylinder Adaptor 1/4" x 1/2" FPT RH	140	
	BF6006	7156/2	Cylinder Adaptor 1/4" x 1/2" FPT LH	140	
Flare Elbows					
	BF7006	7210/2	Flare Elbow 1/4"	140	
	BF7009	7210/3	Flare Elbow 3/8"	140	
	BF7012	7210/4	Flare Elbow 1/2"	140	
	BF7016	7210/5	Flare Elbow 5/8"	140	
Flare - NPT Elbows					
	BF80063	7230/21	Flare - NPT Elbow 1/4" x 1/8"	120	
	BF8006	7220/2	Flare - NPT Elbow 1/4" x 1/4"	120	
	BF8009	7220/3	Flare - NPT Elbow 3/8" x 3/8"	120	
	BF8012	7220/4	Flare - NPT Elbow 1/2" x 1/2"	120	
	BF8019	7220/6	Flare - NPT Elbow 3/4" x 3/4"	120	
Flare Tee					
	BF9006	7310/2	Flare Tee 1/4"	140	
	BF9009	7310/3	Flare Tee 3/8"	140	
	BF9012	7310/4	Flare Tee 1/2"	140	
	BF9016	7310/5	Flare Tee 5/8"	140	
	BF9019	7310/6	Flare Tee 3/4"	140	
Heldon Safety Plugs					
	BFSPA	SP-A	Safety Plug, Acetylene Cylinder		
	BFSPO	SP-O	Safety Plug, Oxygen Cylinder		

Copper Fittings, 45's 90's, Tees,

	Stock Code	Vendors Code	Description	SWP	
Elbow					
	CFB0009		3/8" x 45 Deg Copper Bend	69	
	CFB0012		1/2" X 45 Deg Copper Bend	69	
	CFB0016		5/8" X 45 Deg Copper Elbow	69	
	CFB0019		3/4" X 45 Deg Copper Elbow	69	
	CFB0022		7/8" X 45 Deg Copper Elbow	69	
	CFB0028		1.1/8" X 45 Deg Copper Elbow	43	
	CFB0035		1.3/8" X 45 Deg Copper Elbow	43	
	CFB0042		1.5/8" X 45 Deg Copper Elbow	43	
	CFB0054		2.1/8" X 45 Deg Copper Elbow	39	
	CFB0067		2.5/8" X 45 Deg Copper Elbow	39	
Elbow Short Radius					
	CFES0006		1/4" X 90 Deg Copper Elbow Short Radius	69	
	CFES0009		3/8" X 90 Deg Copper Elbow Short Radius	69	
	CFES0012		1/2" X 90 Deg Copper Elbow Short Radius	69	
	CFES0016		5/8" X 90 Deg Copper Elbow Short Radius	69	
	CFES0019		3/4" X 90 Deg Copper Elbow Short Radius	69	
	CFES0022		7/8" X 90 Deg Copper Elbow Short Radius	69	
	CFES0028		1.1/8" X 90 Deg Copper Elbow Short Radius	56	
	CFES0035		1.3/8" X 90 Deg Copper Elbow Short Radius	48	
	CFES0042		1.5/8" X 90 Deg Copper Elbow Short Radius	48	
	CFES0054		2.1/8" X 90 Deg Copper Elbow Short Radius	39	
	CFES0067		2.5/8" X 90 Deg Copper Elbow Short Radius	39	
	CFES0080		3.1/8" X 90 Deg Copper Elbow Short Radius	29	
Tee					
	CFT0006		1/4" Copper Tee	69	
	CFT0009		3/8" Copper Tee	69	
	CFT0012		1/2" Copper Tee	69	
	CFT0016		5/8" Copper Tee	69	
	CFT0019		3/4" Copper Tee	69	
	CFT0022		7/8" Copper Tee	69	
	CFT0028		1.1/8" Copper Tee - R410a	60	
	CFT4035		1.3/8" Copper Tee	56	
	CFT0042		1.5/8" Copper Tee	48	
	CFT0054		2.1/8" Copper Tee	39	
	CFT0067		2.5/8" Copper Tee	39	
	CFT0080		3.1/8" Copper Tee	33	
Reducing Tee					
	CFRT0906		3/8" x 1/4" Reducing Tee	69	
	CFRT1206		1/2" x 1/4" Reducing Tee	69	
	CFRT1209		1/2" x 3/8" Reducing Tee	69	
	CFRT1609		5/8" x 3/8" Reducing Tee	69	
	CFRT1909		3/4" x 3/8" Reducing Tee	69	
Long Radius Elbows					
	CFEL0009		3/8" 90 Deg Copper Elbow Long Radius	69	
	CFEL0012		1/2" X 90 Deg Copper Elbow Long Radius	69	
	CFEL0016		5/8" X 90 Deg Copper Elbow Long Radius	69	
	CFEL0019		3/4" X 90 Deg Copper Elbow Long Radius	60	
	CFEL0022		7/8" X 90 Deg Copper Elbow Long Radius	60	
	CFEL0028		1.1/8" X 90 Deg Copper Elbow Long Radius	47	
	CFEL0035		1.3/8" X 90 Deg Copper Elbow Long Radius	43	
	CFEL0042		1.5/8" X 90 Deg Copper Elbow Long Radius	43	
	CFEL0054		2.1/8" X 90 Deg Copper Elbow Long Radius	32	
	CFEL0067		2.5/8" X 90 Deg Copper Elbow Long Radius	33	
	CFEL0080		3.1/8" X 90 Deg Copper Elbow Long Radius	29	

Copper Fittings, Caps, P-Traps, Couplings, 180's

	Stock Code	Vendors Code	Description	SWP	
Couplings					
	CFC0006		1/4" Copper Coupling	69	
	CFC0009		3/8" Copper Coupling	69	
	CFC0012		1/2" Copper Coupling	69	
	CFC0016		5/8" Copper Coupling	69	
	CFC0019		3/4" Copper Coupling	69	
	CFC0022		7/8" Copper Coupling	69	
	CFC0028		1.1/8" Copper Coupling	60	
	CFC0035		1.3/8" Copper Coupling	48	
	CFC0042		1.5/8" Copper Coupling	48	
	CFC0054		2.1/8" Copper Coupling	39	
	CFC0067		2.5/8" Copper Coupling	39	
	CFC0080		3.1/8" Copper Coupling	29	
Tube Caps					
	CFS0016		5/8" OD Tube Cap		
	CFS0022		7/8" OD Tube Cap		
	CFS0028		1-1/8" OD Tube Cap		
	CFS0035		1-3/8" OD Tube Cap		
	CFS0042		1-5/8" OD Tube Cap		
	CFS0054		2-1/8" OD Tube Cap		
	CFS0067		2-5/8" OD Tube Cap		
	CFS0080		3-1/8" OD Tube Cap		
P-Traps					
	CFP0016		5/8" Copper P-Trap	69	
	CFP0019		3/4" Copper P-Trap	69	
	CFP0022		7/8" Copper P-Trap	69	
	CFP0028		1.1/8" Copper P-Trap	56	
	CFP0035		1.3/8" Copper P-Trap	43	
	CFP0042		1.5/8" Copper P-Trap	43	
	CFP0054		2.1/8" Copper P-Trap	43	
Return Bends					
	CFD0009		3/8" X 180 Deg Copper Return Bend	69	
	CFD0012		1/2" X 180 Deg Copper Return Bend	69	
	CFD0016		5/8" X 180 Deg Copper Return Bend	56	
	CFD0019		3/4" X 180 Deg Copper Return Bend	56	

Copper Fittings, Reducers

	Stock Code	Vendors Code	Description	SWP	
Reducing Bushes					
	CFRB0906		3/8" - 1/4" Reducing Bush	69	
	CFRB1209		1/2" - 3/8" Reducing Bush	69	
	CFRB1609		5/8" - 3/8" Reducing Bush	69	
	CFRB1612		5/8" - 1/2" Reducing Bush	69	
	CFRB1909		3/4" - 3/8" Reducing Bush	69	
	CFRB1912		3/4" - 1/2" Reducing Bush	69	
	CFRB1916		3/4" - 5/8" Reducing Bush	69	
	CFRB2212		7/8" - 1/2" Reducing Bush	69	
	CFRB2216		7/8" - 5/8" Reducing Bush	69	
	CFRB2219		7/8" - 3/4" Reducing Bush	69	
	CFRB2813		1.1/8" - 1/2" Reducing Bush	43	
	CFRB2816		1.1/8" - 5/8" Reducing Bush	56	
	CFRB2819		1.1/8" - 3/4" Reducing Bush	60	
	CFRB2822		1.1/8" - 7/8" Reducing Bush	60	
	CFRB3528		1.3/8" - 1.1/8" Reducing Bush	48	
	CFRB3522		1.3/8" - 7/8" Reducing Bush	48	
	CFRB4222		1.5/8" - 7/8" Reducing Bush	48	
	CFRB4228		1.5/8" - 1.1/8" Reducing Bush	48	
	CFRB4235		1.5/8" - 1.3/8" Reducing Bush	48	
	CFRB5442		2.1/8" - 1.5/8" Reducing Bush	33	
	CFRB5435		2.1/8" - 1.3/8" Reducing Bush	39	
	CFRB6754		2.5/8" - 2.1/8" Reducing Bush	33	
	CFRB8054		3.1/8" - 2.1/8" Reducing Bush	29	
	CFRB8067		3.1/8" - 2.5/8" Reducing Bush	29	
Reducing Couplings					
	CFRC0906		3/8" - 1/4" Reducing Coupling	69	
	CFRC1909		3/4" - 3/8" Reducing Coupling	69	
	CFRC1916		3/4" - 5/8" Reducing Coupling	69	
	CFRC2216		7/8" - 5/8" Reducing Coupling	69	
	CFRC2212		7/8" - 1/2" Reducing Coupling	69	
	CFRC2219		7/8" - 3/4" Reducing Coupling	69	
	CFRC2816		1.1/8" - 5/8" Reducing Coupling	56	
	CFRC2822		1.1/8" - 7/8" Reducing Coupling	56	
	CFRC2819		1.1/8" - 3/4" Reducing Coupling	56	
	CFRC3528		1.3/8" - 1.1/8" Reducing Coupling	43	
	CFRC3522		1.3/8" - 7/8" Reducing Coupling	43	
	CFRC4235		1.5/8" - 1.3/8" Reducing Coupling	48	
	CFRC4228		1.5/8" - 1.1/8" Reducing Coupling	48	
	CFRC5442		2.1/8" - 1.5/8" Reducing Coupling	39	
	CFRC5435		2.1/8" - 1.3/8" Reducing Coupling	39	
	CFRC6754		2.5/8" - 2.1/8" Reducing Coupling	33	



Copper Fittings (R410A), M/F Elbows, Saddles

	Stock Code	Vendors Code	Description	SWP	
Elbows Long Radius R410A					
	CFEL4028		1.1/8" 90 Deg Copper Elbow Long Radius R410A	60	
	CFEL4035		1.3/8" 90 Deg Copper Elbow Long Radius R410A	56	
	CFEL4042		1.5/8" 90 Deg Copper Elbow Long Radius R410A	56	
Elbows 45 deg 410A					
	CFB4028		1.1/8" 45 Deg Copper Elbow R410A	69	
	CFB4035		1.3/8" 45 Deg Copper Elbow R410A	56	
	CFB4042		1.5/8" 45 Deg Copper Elbow R410A	56	
Couplings R410a					
	CFC4028		1.1/8" Copper Coupling R410A	69	
	CFC4035		1.3/8" Copper Coupling R410A	69	
	CFC4042		1.5/8" Copper Coupling R410A	69	
Copper Tee R410A					
	CFT0028		1.1/8 Copper Tee R410a	60	
	CFT4035		1.3/8 Copper Tee R410a		
	CFT4042		1.5/8 Copper Tee R410a		
	CFT4060		2.1/8 Copper Tee R410a		
Male/Female Elbows					
	CFMF0019		3/4 Copper M/F 90 Deg Elbow	69	
	CFMF0022		7/8 Copper M/F 90 Deg Elbow	69	
	CFMF0028		1.1/8 Copper M/F 90 Deg Elbow	43	
	CFMF0035		1.3/8 Copper M/F 90 Deg Elbow	43	
	CFMF0042		1.5/8 Copper M/F 90 Deg Elbow	43	
	CFMF0054		2.1/8 Copper M/F 90 Deg Elbow	39	
Copper Saddles					
	CFCS0006		1/4 Copper Pipe Saddle		
	CFCS0009		3/8 Copper Pipe Saddle		
	CFCS0012		1/2 Copper Pipe Saddle		
	CFCS0016		5/8 Copper Pipe Saddle		
	CFCS0019		3/4 Copper Pipe Saddle		
	CFCS0022		7/8 Copper Pipe Saddle		
	CFCS0028		1.1/8 Copper Pipe Saddle		
	CFCS0042		1.5/8 Copper Pipe Saddle		

Copper Crimp Fittings (R410A)					
	Stock Code	Vendors Code	Description	SWP	
Zoomlock Elbows Long Radius R410A					
	CFZE006		PZK-90E4-HNBR (1/4" 90 deg Elbow)	48	
	CFZE010		PZK-90E6-HNBR (3/8" 90 deg Elbow)	48	
	CFZE012		PZK-90E8-HNBR (1/2" 90 deg Elbow)	48	
	CFZE016		PZK-90E10-HNBR (5/8" 90 deg Elbow)	48	
	CFZE019		PZK-90E12-HNBR (3/4" 90 deg Elbow)	48	
	CFZE022		PZK-90E14-HNBR (7/8" 90 deg Elbow)	48	
	CFZE029		PZK-90E18-HNBR (1 1/8" 90 deg Elbow)	48	
	CFZE035		PZK-90E22-HNBR (1 3/8" 90 deg Elbow)	48	
Zoomlock Standard Tee R410a					
	CFZT010		PZK-T6-HNBR (3/8" Standard Tee)	48	
	CFZT013		PZK-T8-HNBR (1/2" Standard Tee)	48	
	CFZT016		PZK-T10-HNBR (5/8" Standard Tee)	48	
	CFZT019		PZK-T12-HNBR (3/4" Standard Tee)	48	
	CFZT022		PZK-T14-HNBR (7/8" Standard Tee)	48	
	CFZT029		PZK-T18-HNBR (1-1/8" Standard Tee)	48	
	CFZT035		PZK-T22-HNBR (1-3/8" Standard Tee)	48	
Zoomlock Couplings R410a					
	CFZC006		PZK-C4-HNBR (1/4" Coupling)	48	
	CFZC010		PZK-C6-HNBR (3/8" Coupling)	48	
	CFZC013		PZK-C8-HNBR (1/2" Coupling)	48	
	CFZC016		PZK-C10-HNBR (5/8" Coupling)	48	
	CFZC019		PZK-C12-HNBR (3/4" Coupling)	48	
	CFZC022		PZK-C14-HNBR (7/8" Coupling)	48	
	CFZC029		PZK-C18-HNBR (1 1/8" Coupling)	48	
	CFZC035		PZK-C22-HNBR (1 3/8" Coupling)	48	
Zoomlock Crimp Tools					
	TZJ006		PZK-KJ4 (1/4" KLAUKE MAP2L19 JAW)		
	TZJ008		PZK-KJ4 (5/16" KLAUKE MAP2L19 JAW)		
	TZJ010		PZK-KJ6 (3/8" KLAUKE MAP2L19 JAW)		
	TZJ013		PZK-KJ8 (1/2" KLAUKE MAP2L19 JAW)		
	TZJ016		PZK-KJ10 (5/8" KLAUKE MAP2L19 JAW)		
	TZJ019		PZK-KJ12 (3/4" KLAUKE MAP2L19 JAW)		
	TZJ022		PZK-KJ14 (7/8" KLAUKE MAP2L19 JAW)		
	TZJ029		PZK-KJ18(1 1/8" KLAUKE MAP2L19 JAW)		
	TZJ035		PZK-KJ22(1 3/8" KLAUKE MAP2L19 JAW)		
	TZJDG1		PZK-GNG1 - RLS Crimp Gauge		
	TZJKIT3		PZK-KK0 (KLAUKE MAP2L19CER TOOL KIT W/ 5-Jaws)		

Copper Crimp Fittings (R410A)

	Stock Code	Vendors Code	Description	SWP	
Zoomlock 45 deg Elbows R410A					
	CFZE45010	771402	PZK-45E6-HNBR (3/8" 45 deg Elbow) : Zoomlock	48	
	CFZE45013	771403	PZK-45E8-HNBR (1/2" 45 deg Elbow) : Zoomlock	48	
	CFZE45016	771404	PZK-45E10-HNBR (5/8" 45 deg Elbow) : Zoomlock	48	
	CFZE45019	771405	PZK-45E12-HNBR (3/4" 45 deg Elbow) : Zoomlock	48	
	CFZE45022	771406	PZK-45E14-HNBR (7/8" 45 deg Elbow) : Zoomlock	48	
	CFZE45029	771407	PZK-45E18-HNBR (1 1/8" 45 deg Elbow) : Zoomlock	48	
	CFZE45035	771408	PZK-45E22-HNBR (1 3/8" 45 deg Elbow) : Zoomlock	48	
Zoomlock Reducers R410a					
	CFZR0912	770800	3/8" to 1/4" Zoomlock Reducers PZK-R64-HNBR	48	
	CFZR1206	770808	1/2" to 1/4" Zoomlock Reducers PZK-R84-HNBR	48	
	CFZR1209	770801	1/2" to 3/8" Zoomlock Reducers PZK-R86-HNBR	48	
	CFZR1606	770809	5/8" to 1/4" Zoomlock Reducers PZK-R104-HNBR	48	
	CFZR1609	770810	5/8" to 3/8" Zoomlock Reducers PZK-R106-HNBR	48	
	CFZR1612	770802	5/8" to 1/2" Zoomlock Reducers PZK-R108-HNBR	48	
	CFZR1912	770811	3/4" to 1/2" Zoomlock Reducers PZK-R128-HNBR	48	
	CFZR1916	770803	3/4" to 5/8" Zoomlock Reducers PZK-R1210-HNBR	48	
	CFZR2212	770812	7/8" to 1/2" Zoomlock Reducers PZK-R148-HNBR	48	
	CFZR2216	770804	7/8" to 5/8" Zoomlock Reducers PZK-R1410-HNBR	48	
	CFZR2219	770805	7/8" to 3/4" Zoomlock Reducers PZK-R1412-HNBR	48	
	CFZR2912	770813	1 1/8" to 1/2" Zoomlock Reducers PZK-R188-HNBR	48	
	CFZR2916	770814	1 1/8" to 5/8" Zoomlock Reducers PZK-R1810-HNBR	48	
	CFZR2919	770806	1 1/8" to 3/4" Zoomlock Reducers PZK-R1812-HNBR	48	
	CFZR2922	770807	1 1/8" to 7/8" Zoomlock Reducers PZK-R1814-HNBR	48	
CFZR3522	770818	1 3/8" to 7/8" Zoomlock Reducers PZK-R2214-HNBR	48		
CFZR3529	770819	1 3/8" to 1 1/8" Zoomlock Reducers PZK-R2218-HNBR	48		
Zoomlock Y Joints R410a					
	CFZYJ009	771102	3/8" Zoomlock Y Joints PZK-Y6-NA	48	
	CFZYJ012	771103	1/2" Zoomlock Y Joints PZK-Y8-NA	48	
	CFZYJ016	771104	5/8" Zoomlock Y Joints PZK-Y10-NA	48	
	CFZYJ019	771105	3/4" Zoomlock Y Joints PZK-Y12-NA	48	
	CFZYJ022	771106	7/8" Zoomlock Y Joints PZK-Y14-NA	48	
	CFZYJ029	771107	1-1/8" Zoomlock Y Joints PZK-Y18-NA	48	

Copper Fittings CO2 (CuFe2P) - Coupling, bends and elbows

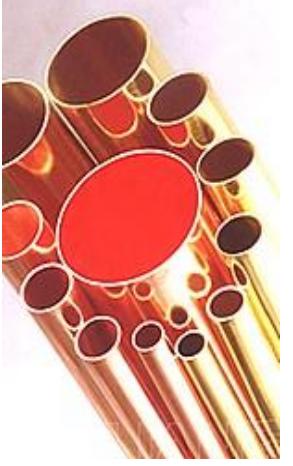
	Stock Code	Vendors Code	Description	SWP (Bar)	List Price
	CFHTB013		High-Tensile, Copper 45 Bend 1/2 F/F	130	
	CFHTB016		High-Tensile, Copper 45 Bend 5/8 F/F	130	
	CFHTB019		High-Tensile, Copper 45 Bend 3/4 F/F	130	
	CFHTB022		High-Tensile, Copper 45 Bend 7/8 F/F	130	
	CFHTB029		High-Tensile, Copper 45 Bend 1.1/8 F/F	130	
	CFHTB035		High-Tensile, Copper 45 Bend 1.3/8 F/F	130	
	CFHTB042		High-Tensile, Copper 45 Bend 1.5/8 F/F	130	
	CFHTC010		High-Tensile, Copper Coupling 3/8	130	
	CFHTC013		High-Tensile, Copper Coupling 1/2	130	
	CFHTC016		High-Tensile, Copper Coupling 5/8	130	
	CFHTC019		High-Tensile, Copper Coupling 3/4	130	
	CFHTC022		High-Tensile, Copper Coupling 7/8	130	
	CFHTC029		High-Tensile, Copper Coupling 1.1/8	130	
	CFHTC035		High-Tensile, Copper Coupling 1.3/8	130	
	CFHTC042		High-Tensile, Copper Coupling 1.5/8	130	
	CFHTEC010		High-Tensile, Copper End Cap 3/8	130	
	CFHTEC013		High-Tensile, Copper End Cap 1/2	130	
	CFHTEC016		High-Tensile, Copper End Cap 5/8	130	
	CFHTEC019		High-Tensile, Copper End Cap 3/4	130	
	CFHTEC022		High-Tensile, Copper End Cap 7/8	130	
	CFHTEC029		High-Tensile, Copper End Cap 1.1/8	130	
	CFHTEC035		High-Tensile, Copper End Cap 1.3/8	130	
	CFHTEC042		High-Tensile, Copper End Cap 1.5/8	130	
	CFHTEL010		High-Tensile, Copper Elbow 3/8 F/F	130	
	CFHTEL013		High-Tensile, Copper Elbow 1/2 F/F	130	
	CFHTEL016		High-Tensile, Copper Elbow 5/8 F/F	130	
	CFHTEL019		High-Tensile, Copper Elbow 3/4 F/F	130	
	CFHTEL022		High-Tensile, Copper Elbow 7/8 F/F	130	
	CFHTEL029		High-Tensile, Copper Elbow 1.1/8 F/F	130	
	CFHTEL035		High-Tensile, Copper Elbow 1.3/8 F/F	130	
	CFHTEL042		High-Tensile, Copper Elbow 1.5/8 F/F	130	
	CFHTMF010		High-Tensile, Copper Elbow 3/8 M/F	130	
	CFHTMF013		High-Tensile, Copper Elbow 1/2 M/F	130	
	CFHTMF016		High-Tensile, Copper Elbow 5/8 M/F	130	
	CFHTMF019		High-Tensile, Copper Elbow 3/4 M/F	130	
	CFHTMF022		High-Tensile, Copper Elbow 7/8 M/F	130	
	CFHTMF029		High-Tensile, Copper Elbow 1.1/8 M/F	130	
	CFHTMF035		High-Tensile, Copper Elbow 1.3/8 M/F	130	
	CFHTMF042		High-Tensile, Copper Elbow 1.5/8 M/F	130	

Copper Fittings CO2 (CuFe2P) - Reducers and tees

	Stock Code	Vendors Code	Description	SWP (Bar)	List Price
	CFHTRB1310		High-Tensile, Copper Reducing Bush 1/2a x 3/8	130	
	CFHTRB1613		High-Tensile, Copper Reducing Bush 5/8a x 1/2	130	
	CFHTRB1916		High-Tensile, Copper Reducing Bush 3/4a x 5/8	130	
	CFHTRB2219		High-Tensile, Copper Reducing Bush 7/8a x 3/4	130	
	CFHTRB2913		High-Tensile, Copper Reducing Bush 1.1/8a x 1/2	130	
	CFHTRB2916		High-Tensile, Copper Reducing Bush 1.1/8a x 5/8	130	
	CFHTRB2922		High-Tensile, Copper Reducing Bush 1.1/8a x 7/8	130	
	CFHTRB3529		High-Tensile, Copper Reducing Bush 1.3/8a x 1.1/8	130	
	CFHTRB4122		High-Tensile, Copper Reducing Bush 1.5/8a x 7/8	130	
	CFHTRB4135		High-Tensile, Copper Reducing Bush 1.5/8a x 1.3/8	130	
	CFHTRB5442		High-Tensile, Copper Reducing Bush 2.1/8a x 1.5/8	130	
	CFHTRC1310		High-Tensile, Copper Reducing Coupling 1/2 x 3/8	130	
	CFHTRC1613		High-Tensile, Copper Reducing Coupling 5/8 x 1/2	130	
	CFHTRC1916		High-Tensile, Copper Reducing Coupling 3/4 x 5/8	130	
	CFHTRC2219		High-Tensile, Copper Reducing Coupling 7/8 x 3/4	130	
	CFHTRC2913		High-Tensile, Copper Reducing Coupling 1.1/8 x 1/2	130	
	CFHTRC35029		High-Tensile, Copper Reducing Coupling 1.3/8 x 1.1/8	130	
	CFHTRC3513		High-Tensile, Copper Reducing Coupling 1.3/8 x 1/2	130	
	CFHTRC3516		High-Tensile, Copper Reducing Coupling 1.3/8 x 5/8	130	
	CFHTRC3519		High-Tensile, Copper Reducing Coupling 1.3/8 x 3/4	130	
	CFHTRC3522		High-Tensile, Copper Reducing Coupling 1.3/8 x 7/8	130	
	CFHTRC4119		High-Tensile, Copper Reducing Coupling 1.5/8 x 3/4	130	
	CFHTRC4122		High-Tensile, Copper Reducing Coupling 1.5/8 x 7/8	130	
	CFHTRC4129		High-Tensile, Copper Reducing Coupling 1.5/8 x 1.1/8	130	
	CFHTRC4135		High-Tensile, Copper Reducing Coupling 1.5/8 x 1.3/8	130	
	CFHTRC5442		High-Tensile, Copper Reducing Coupling 2.1/8 x 1.5/8	130	
	CFHRT1013		High-Tensile, Copper Reducing Tee 3/8 x 1/2 x 3/8	130	
	CFHRT1210		High-Tensile, Copper Reducing Tee 1/2 x 1/2 x 3/8	130	
	CFHRT1316		High-Tensile, Copper Reducing Tee 5/8 x 1/2 x 1/2	130	
	CFHRT1610		High-Tensile, Copper Reducing Tee 5/8 x 5/8 x 3/8	130	
	CFHRT1613		High-Tensile, Copper Reducing Tee 5/8 x 5/8 x 1/2	130	
	CFHRT1913		High-Tensile, Copper Reducing Tee 3/4 x 3/4 x 1/2	130	
	CFHRT1916		High-Tensile, Copper Reducing Tee 3/4 x 3/4 x 5/8	130	
	CFHRT2213		High-Tensile, Copper Reducing Tee 7/8 x 7/8 x 1/2	130	
	CFHRT2216		High-Tensile, Copper Reducing Tee 7/8 x 7/8 x 5/8	130	
	CFHRT2219		High-Tensile, Copper Reducing Tee 7/8 x 7/8 x 3/4	130	
	CFHRT2919		High-Tensile, Copper Reducing Tee 1.1/8 x 1.1/8 x 3/4	130	
	CFHRT2922		High-Tensile, Copper Reducing Tee 1.1/8 x 1.1/8 x 7/8	130	
	CFHRT292213		High-Tensile, Copper Reducing Tee 1.1/8 x 7/8 x 1/2	130	
	CFHRT3519		High-Tensile, Copper Reducing Tee 1.3/8 x 1.3/8 x 3/4	130	
	CFHRT3522		High-Tensile, Copper Reducing Tee 1.3/8 x 1.3/8 x 7/8	130	
	CFHRT3529		High-Tensile, Copper Reducing Tee 1.3/8 x 1.3/8 x 1.1/8	130	
	CFHRT4122		High-Tensile, Copper Reducing Tee 1.5/8 x 1.5/8 x 7/8	130	
	CFHRT4129		High-Tensile, Copper Reducing Tee 1.5/8 x 1.5/8 x 1.1/8	130	
	CFHTT010		High-Tensile, Copper Equal Tee 3/8	130	
	CFHTT013		High-Tensile, Copper Equal Tee 1/2	130	
	CFHTT016		High-Tensile, Copper Equal Tee 5/8	130	
	CFHTT019		High-Tensile, Copper Equal Tee 3/4	130	
	CFHTT022		High-Tensile, Copper Equal Tee 7/8	130	
	CFHTT029		High-Tensile, Copper Equal Tee 1.1/8	130	
	CFHTT035		High-Tensile, Copper Equal Tee 1.3/8	130	
	CFHTT042		High-Tensile, Copper Equal Tee 1.5/8	130	



Copper Tube

	Stock Code	Vendors Code	Description	Wall Thickness	SWP (bar)	
Pre-Insulated Pair Coil Fire Rates to EN Standards						Net price per coil
	PCF609		1/4" x 3/8" Pair Coil 20m - Fire Rated	0.8/ 0.8 mm	115 / 74	
	PCF612		1/4" x 1/2" Pair Coil 20m - Fire Rated	0.8/ 0.8 mm	115 / 54	
	PCF616		1/4" x 5/8" Pair Coil 20m - Fire Rated	0.8/1.00 mm	115 / 54	
	PCF916		3/8" x 5/8" Pair Coil 20m - Fire Rated	0.8/1.00 mm	74 / 54	
	PCF919		3/8" x 3/4" Pair Coil 20m - Fire Rated	0.8/1.20 mm	74 / 54	
Soft Drawn Tube						
	SD0006		1/4 " Soft Drawn Tube 50' Coil, 15.24m	0.76 mm	109	
	SD0008		5/16" Soft Drawn Tube 50' Coil, 15.24m	0.81 mm	91	
	SD0009		3/8 " Soft Drawn Tube 50' Coil, 15.24m	0.81 mm	75	
	SD0012		1/2" Soft Drawn Tube 50' Coil, 15.24m	0.81 mm	55	
	SD0016		5/8" Soft Drawn Tube 50' Coil, 15.24m	0.89 mm	48	
	SD0019		3/4" Soft Drawn Tube 50' Coil, 15.24m	0.89 mm	40	
	SD0022		7/8" Soft Drawn Tube 50' Coil, 15.24m	1.14 mm	44	
Hard Drawn Tube						
	HD0009		3/8" Hard Drawn Tube 5.8M Length -R410A	0.76 mm	107	
	HD0012		1/2" Hard Drawn Tube 5.8M Length -R410A	0.89 mm	93	
	HD0016		5/8" Hard Drawn Tube 5.8M Length -R410A	1.02 mm	85	
	HD0019		3/4" Hard Drawn Tube 5.8M Length -R410A	1.07 mm	74	
	HD0022		7/8" Hard Drawn Tube 5.8M Length -R410A	1.14 mm	67	
	HD0028		1-1/8" Hard Drawn Tube 5.8M Length	1.27 mm	58	
	HD0035		1-3/8" Hard Drawn Tube 5.8M Length	1.40 mm	52	
	HD0042		1-5/8" Hard Drawn Tube 5.8M Length	1.52 mm	47	
	HD0054		2-1/8" Hard Drawn Tube 5.8M Length	1.78 mm	42	
	HD0067		2-5/8" Hard Drawn Tube 5.8M Length	2.03 mm	39	
	HD0080		3-1/8" Hard Drawn Tube 5.8M Length	2.29 mm	37	
Heavy Wall Hard Drawn Tube - R410A						Per length
	HW0019A		3/4 Hard Drawn Tube 5.8M Length - Heavy Wall	1.22mm	85	
	HW0022A		7/8 Hard Drawn Tube 5.8M Length - Heavy Wall	1.63mm	98	
	HW0028		1-1/8 Hard Drawn Tube 5.8M Length - Heavy Wall	1.83mm	85	
	HW0035A		1-3/8 Hard Drawn Tube 5.8M Length - Heavy Wall	2.16mm	82	
	HW0042A		1-5/8 Hard Drawn Tube 5.8M Length- Heavy Wall	2.59mm	83	
	HW0054		2-1/8 Hard Drawn Tube 5.8M Length- Heavy Wall	2.11mm	50	
Capillary Tube						
	CTSP1	SP1	Capillary Tube Pack 0.66mm (0.0266in)ID 3.66M	1.06mm	450	
	CTSP3	SP3	Capillary Tube Pack 0.90mm (0.0355in)ID 3.66M	1.28mm	430	
	CTSP4	SP4	Capillary Tube Pack 1.10mm (0.0435in)ID 4.27M	1.06mm	365	
	CTSP5	SP5	Capillary Tube Pack 1.30mm (0.0510in)ID 4.27M	1.28mm	370	
	CTSP6	SP6	Capillary Tube Pack 1.40mm (0.0550in)ID 3.66M	1.30mm	360	
	CTSP7	SP7	Capillary Tube Pack 1.62mm (0.0640in)ID 3.05M	1.32mm	335	
Hard Drawn Tube 130 Bar CuFe2P (K65 Alternative)						Per length
	HW0010-130		3/8 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	0.65 mm	130	
	HW0013-130		1/2 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	0.85 mm	130	
	HW0016-130		5/8 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	1.05 mm	130	
	HW0019-130		3/4 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	1.3 mm	130	
	HW0022-130		7/8 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	1.5 mm	130	
	HW0028-130		1.1/8 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	1.9 mm	130	
	HW0035-130		1.3/8 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	2.3 mm	130	
	HW0042-130		1.5/8 High Pressure Copper Tube 5.8M, CuFe2P (K65 Alternative)	2.7 mm	130	

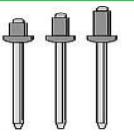
Clamps & Saddles

	Stock Code	Vendors Code	Description	
Cush-A-Clamp				
	FHI0006	004T008	Cush-A-Clamp 1/4" OD	
	FHI0009	006T010	Cush-A-Clamp 3/8" OD	
	FHI0012	008T012	Cush-A-Clamp 1/2" OD	
	FHI0016	010T014	Cush-A-Clamp 5/8" OD	
	FHI0019	012T016	Cush-A-Clamp 3/4" OD	
	FHI0022	014T018	Cush-A-Clamp 7/8" OD	
	FHI0028	018T022	Cush-A-Clamp 1.1/8" OD	
	FHI0035	022T026	Cush-A-Clamp 1.3/8" OD	
	FHI0042	026N030	Cush-A-Clamp 1.5/8" OD	
	FHI0054	034N040	Cush-A-Clamp 2.1/8" OD	
	FHI0067	042N048	Cush-A-Clamp 2.5/8" OD	
	FHI0080	050N056	Cush-A-Clamp 3.1/8" OD	
Support Saddles - 300mm long				
	FHS0038	SD150	Saddle-Up for 38mm OD	
	FHS0050	SD200	Saddle-Up for 50mm OD	
	FHS0062	SD250	Saddle-Up for 65mm OD	
	FHS0075	SD300	Saddle-Up for 75mm OD	
	FHS0087	SD350	Saddle-Up for 88mm OD	
	FHS0112	SD450	Saddle-Up for 112mm OD	
Insulated Pipe Clamps				
	FHT009	UX3834	Cush-A-Therm Insulated Bracket 3/8" Tube, 19mm wt	
	FHT012	UX1234	Cush-A-Therm Insulated Bracket 1/2" Tube, 19mm wt	
	FHT016	UX5810	Cush-A-Therm Insulated Bracket 5/8" Tube, 25mm wt	
	FHT019	UX3410	Cush-A-Therm Insulated Bracket 3/4" Tube, 25mm wt	
	FHT022	UX7810	Cush-A-Therm Insulated Bracket 7/8" Tube, 25mm wt	
	FHT028	UX11810	Cush-A-Therm Insulated Bracket 1 1/8" Tube, 25mm wt	
	FHT035	UX13810	Cush-A-Therm Insulated Bracket 1 3/8" Tube, 25mm wt	
	FHT042	UX15810	Cush-A-Therm Insulated Bracket 1 5/8" Tube, 25mm wt	
	FHT054	UX21810	Cush-A-Therm Insulated Bracket 2 1/8" Tube, 25mm wt	
	FHT067	UX25810	Cush-A-Therm Insulated Bracket 2 5/8" Tube, 25mm wt	
	FHT080	UX31810	Cush-A-Therm Insulated Bracket 3 1/8" Tube, 25mm wt	
Aluminium Channel				
	FHCCAL		Aluminium Channel 42 x 20 x 1.6 x 900mm	
Threaded Pipe Clamps				
	FH2012	MRIN9-13	3/8" - 1/2" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2016	MRIN12-16	5/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2019	MRIN15-19	3/4" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2022	MRIN20-24	7/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2028	MRIN23-28	1.1/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2035	MRIN31-36	1.3/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2042	MRIN38-44	1.5/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2054	MRIN50-56	2.1/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2067	MRIN63-69	2.5/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FH2080	MRIN77-85	3.1/8" Threaded Pipe Clamp 2 Bolt Rubber Lined	
	FHR010	TR101	10mm Threaded Rod M10 ZP 1M	
	FHB010	GHBP10	10mm Base Plate for Pipe Clamps	

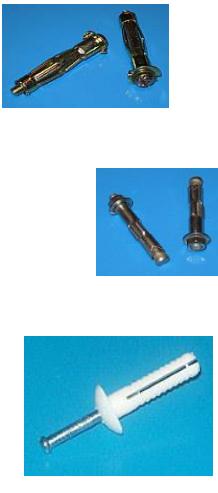
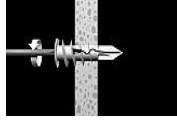
Clamps & Saddles

	Stock Code	Vendors Code	Description	
Channel Clips				
	FHCC006	B6842	CHANNEL CLIP 1/4	
	FHCC009	B6844	CHANNEL CLIP 3/8	
	FHCC012	B6843	CHANNEL CLIP 1/2	
	FHCC016	B6845	CHANNEL CLIP 5/8	
	FHCC020	B6846	CHANNEL CLIP 3/4	
	FHCC022	B6847	CHANNEL CLIP 7/8	
	FHCC025	B6848	CHANNEL CLIP 1"	
	FHCC028	B6849	CHANNEL CLIP 1.1/8	
	FHCC032	B6850	CHANNEL CLIP 1 1/4	
	FHCC035	B6851	CHANNEL CLIP 1.3/8	
	FHCC038	B6852	CHANNEL CLIP 1 1/2	
	FHCC042	B6853	CHANNEL CLIP 1 5/8	
Aspen Drain Supports				
	FHPS015	B7616	Aspen Xtra Pipe supports surface mount 15mm Drain (Each)	
	FHPS020	B7615	Aspen Xtra Pipe supports surface mount 20mm Drain (each)	
	FHPS025	B7614	Aspen Xtra Pipe supports surface mount 25mm Drain (each)	
Griplocks				
	FHG001	B6186	Griplock #1 1/4 - 1/2in	
	FHG002	B6187	Griplock #2 3/8 - 5/8in	
	FHG003	B6188	Griplock #3 1/2 - 7/8in	
Pipe Hangers				
	FHIP09015	B6543	SIZE 2 INSULATED PIPE 3/8 & 5/8 PLASTIC HANGER	
	FHMH002	B6492	Size 2 insulated pipe 3/8 & 5/8" metal hanger	
	FHMH003	B6943	Size 3 insulated pipe 1/2 & 7/8" metal hanger	
Stud Clips				
	FHC006	B6814	Stud Clip 1/4" for M10 Threaded Rod	
	FHC009	B6816	Stud Clip 3/8" for M10 Threaded Rod	
	FHC012	B6815	Stud Clip 1/2" for M10 Threaded Rod	
	FHC016	B6817	Stud Clip 5/8" for M10 Threaded Rod	
	FHC019	B6818	Stud Clip 3/4" for M10 Threaded Rod	
	FHC022	B6819	Stud Clip 7/8" for M10 Threaded Rod	
	FHC025	B6820	Stud Clip 1" for M10 Threaded Rod	
	FHC028	B6821	Stud Clip 1.1/8" for M10 Threaded Rod	
	FHC032	B6822	Stud Clip 1.1/4" for M10 Threaded Rod	
	FHC035	B6823	Stud Clip 1.3/8 for M10 Threaded Rod	
	FHC038	B6824	Stud Clip 1.1/2 for M10 Threaded Rod	
	FHC042	B6825	Stud Clip 1.5/8 for M10 Threaded Rod	

Fastenings

	Stock Code	Vendors Code	Description	Per Pack of	
Rivets					
	SF73MS42	73MS42	Monel Rivets 4-2 1/8" Dia x 3/16"	100	
	SF73MS43	73MS43	Monel Rivets 4-3 1/8" Dia x 5/16"	100	
	SF73MS44	73MS44	Monel Rivets 4-4 1/8" Dia x 3/8"	100	
	SF73MS45	73MS45	Monel Rivets 4-5 1/8" Dia x 1/2"	100	
Drills, Power Bits					
	SFDRL3.3	DRL3.3	Double Ended Jobber Drill Bright 3.3mm	10	
	SFPB22SD	PB22SD	Power Bit #2 Square Drive	EACH	
	SFPB2SD100	PB2SD100	Power Bit #2 Square Drive 100mm	EACH	
	SFPB2SD150	PB2SD150	Power Bit #2 Square Drive 150mm	EACH	
	SFPBTEK12L	PBTEK12L	Tek Power Bit 12# x 65mm (5/16)	EACH	
Cable Ties					
	SFKT10025	HCT305	Cable Tie 100 x 2.5mm Black	100	
	SFKT15235	KT15235	Cable Tie 150 x 3.6mm Black	100	
	SFKT20035	KT20035	Cable Tie 200 x 3.2mm Black	100	
	SFKT20035NT	KT20035NT	Cable Tie 200 x 3.2mm White	100	
	SFKT29236	KT29236	Cable Tie 295 x 3.6mm Black	100	
	SFKT29236NT	KT29236NT	Cable Tie 295 x 3.6mm White	100	
Pozi-Drive Countersunk Wood Screws					
	SFPD834CS	PD834CS	Surefast Pozi 8 x 3/4"	200	
	SFPD81CS	PD81CS	Surefast Pozi 8 x 1"	200	
	SFPD8114CS	PD8114CS	Surefast Pozi 8 x 1-1/4"	200	
	SFPD8112CS	PD8112CS	Surefast Pozi 8 x 1-1/2"	200	
	SFPD8134CS	PD8134CS	Surefast Pozi 8 x 1-3/4"	200	
	SFPD82CS	PD82CS	Surefast Pozi 8 x 2"	100	
Square-Drive Countersunk Wood Screws - Zinc Plated					
	SFSD834CS	SD834CS	Surefast No. 2 Square drive 8 x 3/4"	200	
	SFSD81CS	SD81CS	Surefast No. 2 Square-drive 8 x 1"	200	
	SFSD8114CS	SD8114CS	Surefast No. 2 Square drive 8 x 1-1/4"	200	
	SFSD8112CS	SD8112CS	Surefast No. 2 Square drive 8 x 1-1/2"	200	
	SFSD8134CS	SD8134CS	Surefast No. 2 Square drive 8 x 1-3/4"	200	
	SFSD82CS	SD82CS	Surefast No. 2 Square drive 8 x 2"	100	
Square-Drive Countersunk Wood Screws - Stainless					
	SFSSD934CS	SSD934CS	Surefast No.2 Square Drive 8 x 3/4"	100	
	SFSSD91CS	SSD91CS	Surefast No.2 Square Drive 8 x 1"	100	
	SFSSD9114CS	SSD9114CS	Surefast No.2 Square Drive 8 x 1-1/4"	100	
	SFSSD9112CS	SSD9112CS	Surefast No.2 Square Drive 8 x 1-1/2"	100	
	SFSSD92CS	SSD92CS	Surefast No.2 Square Drive 8 x 2"	50	

Fastenings

	Stock Code	Vendors Code	Description	Per Pack of	
Tek Screws					
	SFT1225	T1225	Wood Tek Screws Type 17 neo 12g x 25mm	95	
	SFT1240	T1240	Wood Tek Screws Type 17 neo 12g x 40mm	70	
	SFT1250	T1250	Wood Tek Screws Type 17 neo 12g x 50mm	60	
	SFT1265	T1265	Wood Tek Screws Type 17 neo 12g x 65mm	45	
	SFT1225MSD	T1225MSD	Metal Drilling Tek Screws C4 neo 12g x 25mm	70	
	SFT1245MSD	T1245MSD	Metal Drilling Tek Screws C4 neo 12g x 45mm	40	
	SFT1265MSD	T1265MSD	Metal Drilling Tek Screws C4 neo 12g x 65mm	30	
Self Drilling Screws					
	SFSSD1016MSD	SSD1016MSD	Stainless Pan Square Drive Metal Selfdriller 10 x 16mm	100	
	SFSSD1020MSD	SSD1020MSD	Stainless Pan Square Drive Metal Selfdriller 10 x 20mm	100	
	SFSSD1025MSD	SSD1025MSD	Stainless Pan Square Drive Metal Selfdriller 10 x 25mm	100	
Wall Anchors					
	SFHWA440.1	HWA440.1	Hollow Wall Anchor M4 8-13mm	25	
	SFSA840J	SA840J	Metal Sleeve Anchor 8 x 40mm	22	
	SFSA1050J	SA1050J	Metal Sleeve Anchor 10 x 50mm	13	
	SFSA1075J	SA1075J	Metal Sleeve Anchor 10 x 75mm	10	
	SFSA1260J	SA1260J	Metal Sleeve Anchor 12 x 60mm	10	
	SFSA12100J	SA12100J	Metal Sleeve Anchor 12 x 100mm	7	
	SFNAR525J	NAR525J	Nylon Wall Anchor Tappet Flat Head 5 x 25mm	100	
	SFNAR540J	NAR540J	Nylon Wall Anchor Tappet Flat Head 5 x 40mm	50	
	SFNAM6525J	NAM6525J	Nylon Wall Anchor Tappet Mushroom Head 6.5 x 25mm	50	
	SFNAR6525J	NAR6525J	Nylon Wall Anchor Tappet Flat Head 6.5 x 25mm	50	
	SFWD6532/25J	WD6532/25J	Walldog 6.5 x 32mm Panhead No. 2 Square Drive	25	
	GANCHOR	ANCHOR	Gorilla Wall Anchor 5mm no nail required	100	
Plasterboard Screws					
	SFSDPBMJ	SDPBMJ	Metal Plasterboard Screws Zip-its	12	
	SFSDPBMJ/50	SDPBMJ/50	Metal Plasterboard Screws Zip-its	50	
	SFTOGSP/25J	TOGSP/25J	Nylon Self Drilling Plaster Board SnapSkru	25	
	SFTOGSP/100P	TOGSP/100P	Nylon Self Drilling Plaster Board SnapSkru	100	
Simplefix					
	SFSIM055	SIM055	Simplefix G250 Strap 0.55 x 25mm x 25mtrs	Roll	
	SFSIMCL	SIMCL	Simplefix ClipLock	50	
	SFSIMUB	SIMUB	Simplefix Universal Bracket	30	
Miscellaneous					
	SFFN10	FN10	Full Nuts ZP 10mm	35	
	SFGB3161	GB3161	Gutterbolts & Nuts 3/16 x 1"	70	
	SFW14114Z	W14114Z	Penny Washers 1/4 x 1-1/4"	100	
	SFW38114Z	W38114Z	Penny Washers 3/8 x 1-1/4"	100	
	SFW38	W38	Zinc Washers M10-3/8" x 21mm	75	
	SFVHT1425J	VHT1425J	Vertigo Hanger (timber type) 14g x 25mm M10 Boss	10	

Insulation

Stock Code	Description	Carton Quantity	Unit
INSULATION TUBE			
IT09006	K-Flex Insulation Tube 6mm x 9mm wall	176	2m length
IT09010	K-Flex Insulation Tube 10mm x 9mm wall	133	2m length
IT09012	K-Flex Insulation Tube 12mm x 9mm wall	117	2m length
IT09015	K-Flex Insulation Tube 15mm x 9mm wall	96	2m length
IT09020	K-Flex Insulation Tube 20mm x 9mm wall	78	2m length
IT09022	K-Flex Insulation Tube 22mm x 9mm wall	68	2m length
IT13010	K-Flex Insulation Tube 10mm x 13mm wall	72	2m length
IT13012	K-Flex Insulation Tube 12mm x 13mm wall	64	2m length
IT13015	K-Flex Insulation Tube 15mm x 13mm wall	56	2m length
IT13020	K-Flex Insulation Tube 20mm x 13mm wall	49	2m length
IT13022	K-Flex Insulation Tube 22mm x 13mm wall	42	2m length
IT13028	K-Flex Insulation Tube 28mm x 13mm wall	36	2m length
IT13035	K-Flex Insulation Tube 35mm x 13mm wall	30	2m length
IT13042	K-Flex Insulation Tube 42mm x 13mm wall	25	2m length
IT13054	K-Flex Insulation Tube 54mm x 13mm wall	20	2m length
IT13067	K-Flex Insulation Tube 67mm x 13mm wall	18	2m length
IT19010	K-Flex Insulation Tube 10mm x 19mm wall	42	2m length
IT19012	K-Flex Insulation Tube 12mm x 19mm wall	36	2m length
IT19015	K-Flex Insulation Tube 15mm x 19mm wall	36	2m length
IT19020	K-Flex Insulation Tube 20mm x 19mm wall	33	2m length
IT19022	K-Flex Insulation Tube 22mm x 19mm wall	30	2m length
IT19028	K-Flex Insulation Tube 28mm x 19mm wall	23	2m length
IT19035	K-Flex Insulation Tube 35mm x 19mm wall	18	2m length
IT19042	K-Flex Insulation Tube 42mm x 19mm wall	16	2m length
IT19054	K-Flex Insulation Tube 54mm x 19mm wall	15	2m length
IT19067	K-Flex Insulation Tube 67mm x 19mm wall	11	2m length
IT19076	K-Flex Insulation Tube 76mm x 19mm wall	11	2m length
IT19080	K-Flex Insulation Tube 80mm x 19mm wall	10	2m length
IT25010	K-Flex Insulation Tube 10mm x 25mm Wall	27	2m length
IT25012	K-Flex Insulation Tube 12mm x 25mm Wall	25	2m length
IT25016	K-Flex Insulation Tube 16mm x 25mm Wall	23	2m length
IT25020	K-Flex Insulation Tube 20mm x 25mm wall	22	2m length
IT25022	K-Flex Insulation Tube 22mm x 25mm wall	20	2m length
IT25028	K-Flex Insulation Tube 28mm x 25mm wall	16	2m length
IT25035	K-Flex Insulation Tube 35mm x 25mm wall	15	2m length
IT25042	K-Flex Insulation Tube 42mm x 25mm wall	12	2m length
IT25054	K-Flex Insulation Tube 54mm x 25mm wall	9	2m length
IT25067	K-Flex Insulation Tube 67mm x 25mm wall	8	2m length
IT25080	K-Flex Insulation Tube 80mm x 25mm wall	6	2m length

TECHNICAL DATA

Temperature range

Thermal conductivity λ W/(m•K) EN 12667 (DIN 52612) - EN ISO 8497 (DIN 52613)

-200 °C max +105 °C*** (-50°C max +85°C per ST/SK)

-20 °C = 0.034

0 °C = 0.036*

+20 °C = 0.038

+40 °C = 0.040 W/(m•K)

Corrosion problems DIN 1988/7**; pH neutral

Permeability μ EN12086 (DIN 52615) $\geq 10000^{**}$

Euroclass B, s3, d0 EN 13501-1 *

Cl 1 (I)*, Brandkennziffer 5.2 (CH)

BS 476 Part 6 1989 Cl. 0 (UK) - B1 DIN 4102 (DE)*,

DIN 4102 TEIL 11 (Wand- und Deckendurchführung)

NF - FEU 487 (F)*, M1 (E)

* Supervised by an independent Institute

** Supervised permeability $\mu \geq 7000$, Individual certification $\mu \geq 10000$.

*** For applications at temperatures lower than -50 °C please contact our Technical office

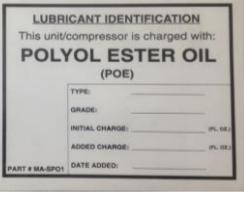
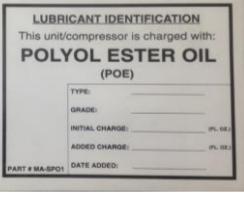
L'ISOLANTE K-FLEX reserves the right to change data and technical requirements without notice.

Insulation and Accessories, Oil

Insulation and Accessories, Oil

	Stock Code	Description	Carton Quantity	Unit		
Sheets						
	ITS0013	Kflex Sheet 13mm x 1.21M x 0.91M	20	Each		
	ITS0019	Kflex Sheet 19mm x 1.21M x 0.91M	14	Each		
	ITS0025	Kflex Sheet 25mm x 1.21M x 0.91M	10	Each		
Glue						
	IGAMBER	Aerocelex Amber Adhesive 236 ml, Brush in Can		Each		
Foam						
	IFOAM	Expanding Foam DIY pack Aerosol 400ml c/w 1 Nozzle		Each		
	IFOAM2	Spare Nozzles for IFOAM; Pack of 4		Pack		
Insulating Mounting Pads						
	IPAD	ISO-Cube Anti Vibration Pad 450mm x 450mm		Each		
	IPAD2	ISO-Cube Anti Vibration Square 50mm x 50mm		Each		
	VWP10010	10mm Vibration Waffle Pad Strip 100*1000mm (1/10Pk)		Each		
	VWP3030R	300mmx300mm Pre-Cut Ripper Waffle Pad				
IPAD			IPAD2			
						
						
						
Oil						
	LP0132	Emkarate POE Oil RL32-3MAF 1Litre M/L Applications				
	LP0546	Emkarate RL46H POE Oil 5Litre				
	LP0532	Emkarate POE Oil RL32H 5Litre M/L Applications				
	LP2032	Emkarate POE Oil RL32H 20Litre M/L Applications				
	LP0168	Emkarate POE Oil RL68H 1Litre M/H Applications				
	LP0568	Emkarate POE Oil RL68H 5Litre M/H Applications				
	LP2068	Emkarate POE Oil RL68H 20Litre M/H Applications				
	LME304	Emkarate Mineral Oil RL 3MO - (3GS) M/L				
	LM0320	3GS Mineral Oil 20L Pack M/L Applications				
	LME404	Emkarate Mineral Oil RL 4MO - (4GS) M/H				
	LM0504	5GS Mineral Oil 3.78L Pack M/H Applications				
	YJ93191	Yellow Jacket Vacuum Oil - 0.47L				
	YJ93192	Yellow Jacket Vacuum Oil - 0.946L				
	YJ93194	Yellow Jacket Vacuum Oil - 3.785L				
	MSDS sheets available on request					
Oil Test Kits						
	CG0020	TESTOIL-3P-CO2 Acid Test Kit				
	CG0004	TKO Oil Test Kit - Mineral Oil				
	CG0005	ETK Oil Test Kit - POE				
Acid Away Oil Treatment						
	CG0016	Rectorseal Acid Away Mineral Oil 118ml				
	CG0019	Nu-Calgon RX Acid Scavenger				

Refrigerants, Oils, Labels

	Stock Code	Vendors Code	Description	
Refrigerants				
 	RG0134		Refrigerant R134a 13.6kg	
	RG0404		Refrigerant R404a 10.9kg	
	RG0407		Refrigerant R407c 11.3kg	
	RG0407F		Refrigerant R407F 11.3kg	
	RG0410		Refrigerant R410a 11.3kg	
	RG0507		Refrigerant R507 11.3kg	
	RGMO59		Refrigerant R417a (MO59) 11.35kg	
	RG0513A		Refrigerant R513A (XP10) 11.35kg	
	RG0032-3		Refrigerant R32 3KG	
	RG0449a		Refrigerant R449a 11.35kg DAC	
	RG0452a		Refrigerant R452a 11.35kg DAC	
	RG0032-3		Refrigerant R32 3kg Disposable	
	RG290-400G		R290 Refrigerant 400g can	
	RGR600-3		R600 Minus 10 Refrigerant 3kg	
	RG1234YF		Refrigerant R1234yf 5kg	
	RG0454B		Refrigerant R454b 9kg (XL41)	
	RG0454C		Refrigerant R454c 9kg (XL20)	
			All refrigerants will be subject to the following levies:-	
			Recovery - Standard HFC's etc	
			Recovery - Flammable refrigerants	
		Industry training		
		All pricing will be inclusive of Carbon Taxes		
		SDS sheets available on request		
VC0001		Valve for 400g R600a Cans		
VC0003		Valve for Global Refrigeration Refrigerant Cans		
Recovery Cylinder				
	RC0001		Recovery Cylinder 20kg c/w Dual Port Valve	
	RC0006		Recovery Cylinder 42kg c/w Dual Port Valve	
Labels				
  	MA-SMO1		Mineral Oil Label	
	MA-SPA1		PAG Oil Label	
	MA-SPO1		Polyol Ester Oil Label	
	MA-SR134A		Refrigerant Label Light Blue R134a	
	MA-SR452A		Refrigerant Label R452a (XP44)	
	MA-SR449A		Refrigerant Label R449a (XP40)	
	MA-SR032		Refrigerant Label Light Blue-Green R32	
	MA-SR404A		Refrigerant Label Citrus Orange R404a	
	MA-SR406A		Refrigerant Label Blue R406a	
	MA-SR407C		Refrigerant Label Light Brown R407c	
	MA-SR407F		Refrigerant Label Light Green R407f	
	MA-SR410A		Refrigerant Label Burgundy R410a	
	MA-SR417A		Refrigerant Label Green R417a (MO59)	
	MA-SRC02		Refrigerant Label Violet CO2	

Condensate Pumps

	Stock Code	Vendors Code	Description	Performance (l/hr@height m)				List Price
Mini Condensate Pumps				Performance (l/hr@height m)				Outlet (mm)
				0m	6m	10m	12m	
	PA0031	FP2210	Aspen Maxi Orange Condensate Pump Maximum Head 15m Maximum Suction Lift 2m	35	21	17	13	6
	PA0015	FP2406	Aspen Mini Aqua Condensate Pump Maximum Head 10m Maximum Suction Lift 2m	12	8	6	N/R	6
	PA0024	FP3326	Aspen Silent + Mini Aqua Condensate Pump Maximum Head 10m Maximum Suction Lift 2m	12	8	6	N/R	
	PA0010	FP2212	Aspen Mini Orange Condensate Pump Maximum Head 10m Maximum Suction Lift 2m	12	8	6	N/R	6
	PA0025	FP3313	Aspen Silent + Mini Orange Condensate Pump Maximum Head 10m Maximum Suction Lift 2m	12	8	6	N/R	6
	PA0011	FP1080	Aspen Mini Blanc Condensate Pump Maximum Head 10m maximum Suction Lift 2m	12	8	4	N/R	
	PA0012	FP3312	Aspen Mini Lime Silent+ Condensate Pump C/w Capping and 90° elbow Maximum Head 10m	12	4	3	N/R	6
	PA0014	FP2213	Aspen Maxi Lime Silent+ Condensate Pump C/w Capping and 90° elbow Maximum Head 15m	35	21	17	13	6

pump selector

		page number	sector		system type				duty			mounting									
			air conditioning	refrigeration	cassette	wall mount	ducted	under ceiling	humidifier	dehumidifier	floor type	dairy case	chillers	tank capacity (l)	max. kW / Btu's*	trunking	in unit	remotely	below unit		
	micro-v i4 UNIVOLT	7	•			•	•	•					14.5	10	2	19		19.3 / 66k	•	•	•
	silent+ mini orange	9	•			•	•	•	•				12	10	2	19		16 / 54k	•	•	•
	silent+ mini lime	10	•			•	•	•	•				12	10	2	21		16 / 54k	•		
	silent+ mini aqua	11	•			•	•	•	•				12	10	2	19		16 / 54k	•	•	•
	mini orange	13	•			•	•	•	•	•			12	10	2	21		16 / 54k	•	•	•
	maxi orange	14	•			•	•	•	•	•			35	15	2	35		46 / 157k			•
	maxi lime	15	•			•	•	•	•	•			35	15	2	35		46 / 157k	•		
	mini aqua	16	•			•	•	•	•	•			12	10	2	21		16 / 54k	•	•	•
	mini blanc	17	•			•			•				12	10	2	21		16 / 54k			•

Condensate Pumps

	Stock Code	Vendors Code	Description					
Tank and Full Size Condensate Pumps				Performance (l/hr@height m)				Outlet (mm)
				0m	3m	6m	12m	
	PA0013	FP2082	Aspen Universal Peristaltic Pump Operates from 2 air sensors Maximum Head 12m Maximum Suction Lift 3M	6.25	6.25	6.25	6.25	6
	PA0017	FP1282	Peristaltic Tube Kit (All Aspen Peristaltic Pumps)					
	PAUNILEAD	FP2462	Universal Pump Lead Assembly, Red, Blue, Power					
	PA0018	FP2099	Aspen HI LIFT Condensate Pump Tank Capacity 1l Maximum Head 12m	11	11	11	11	6
	PA0019	FP2071	Aspen HI LIFT Condensate Pump Tank Capacity 2l Maximum Head 12m	11	11	11	11	6
	PA0026	FP1056	Aspen Mini Tank Pump Tank Capacity 0.24l Maximum Head 15m	35	22	17	10	6 & 10
	PA0027	FP3349	Aspen MAX Hi Flow Tank Pump Capacity 1.7l Maximum Head 5m	Tank 300	220	100	30	6 & 10
	PA0003	MD400W	Microdam Condensate Pump Apollo Tank Capacity 0.8l Maximum Lift 3m	216	165	150	108	10
	PA0004	MD400	Microdam Condensate Pump Poseidon Tank Capacity 1.8l Maximum Lift 4m	360	240	192	N/R	10
	PA0005	MD600CE	Microdam Condensate Pump Titan Tank Capacity 0.8l Maximum Lift 6m	336	204	84	N/R	10
	PA0006	MD1000	Microdam Condensate Pump Hercules Tank Capacity 3.8l Maximum Lift 9m	630	324	156	N/R	10
	PASWITCH	PASWITCH	Safety Switch - Titan Pump					

Based in Korea Microdam has produced condensate removal pumps for 20+ years and exports to over 20 countries throughout the world. Microdam pumps are specified by both Carrier and Samsung in Korea.

For further information please contact Refrigeration Specialties Ltd.

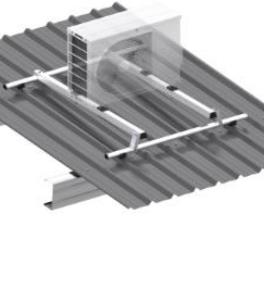
Condensate Pump Accessories

	Stock Code	Vendors Code	Description	
Connectors etc				
	PVCX06C	FP2622	6mm PVC Connector Pack of 5	
	PVCX06E	FP2028	6mm PVC Elbow Connector Pack of 5	
	PVCX06T	FP2024	6mm PVC T Connector Pack of 5	
	PVCX06V	FP2628	6mm PVC Non Return Valve Pack of 5	
	PVCX106C	FP2020	10mm - 6mm PVC Reducer Pack of 5	
	PVCX10C	FP2624	10mm PVC Connector Pack of 5	
	PVCX10E	FP2032	10mm PVC Elbow Pack of 5	
	PVCX10T	FP2030	10mm PVC Tee Pack of 5	
	PVCXHC16	FP2050	Hose Clamp 10-16mm Pack of 5	
	PVCXHC25	FP2052	Hose Clamp 16-25mm Pack of 5	
	PVCXHC35	FP2054	Hose Clamp 23 to 35mm Pack of 5	
	PVCXR01	FP2042	Rubber Adaptor 16-26mm Pack of 3	
	PVCXR02	FP2044	Rubber Adaptor 25-26mm Pack of 3	
	PVCXR03	FP2046	Rubber Adaptor 32-26mm Pack of 3	
	PVCXR04	FP2017	Rubber Adaptor 21-32mm Pack of 3	
	PVCXR05	FP2018	Rubber Adaptor 21-40mm Pack of 3	
	PVCXR06	FP2012	Rubber Adaptor to connect cassette drain pipe 26-21mm Pack of 3	
	PVCXR07	FP2013	Rubber Adaptor to connect cassette drain pipe 32-21mm Pack of 3	
	PVCXR08	FP2048	Tube Adaptor 21.5mm overflow to 6mm PVC Pack of 3	
	PVCXR09	FP2038	6mm Tube to Soil Stack Adaptor Pack of 3	
	PVCT06		6mm Clear Plastic tube 30m Roll (suits Mini Aqua Mini Orange, Mini Lime, Universal & Hi-Lift)	
	PVCT08		8mm Clear Plastic tube 30m Roll (suits Poseidon, Titan, Hercules and Apollo pumps)	
	PVCT06B		6mm Braided Plastic tube 30m Roll (suits Mini Aqua Mini Orange, Mini Lime, Universal & Hi-Lift)	

Air-Conditioning Decorative Capping

	Stock Code	Vendors Code	Description	Pack Quantity	
Decorative Capping					
	PP0701	PSD7	Ducting 75mm 2M Length	5	
	PP1001	PSD10	Ducting 100mm 2M Length	5	
	PP0702	PSW7	Wall Cover - Two Piece 75mm	10	
	PP1002	PSW10	Wall Cover - Two Piece 100mm	10	
	PP0703	PSWA7	Wall Cover - One Piece 75mm	10	
	PP1003	PSWA10	Wall Cover - One Piece 100mm	10	
	PP0706	PSC7	Elbow 90 Deg Vertical - 75mm	10	
	PP1006	PSC10	Elbow 90 Deg Vertical - 100mm	10	
	PP0710	PSKF7	45 Deg Flat Elbow 75mm	10	
	PP0705	PSK7	90 Deg Flat Elbow 75mm	10	
	PP1005	PSK10	90 Deg Flat Elbow 100mm	10	
	PP0707	PSF710	Flexible Joint 75mm - 1000mm long	20	
	PP0709	PSF75	Flexible Joint 75mm - 500mm long	20	
	PP1007	PSF108	Flexible Joint 100mm - 800mm long	20	
	PP0708	PSJ7	Duct Joiner 75mm	10	
	PP1008	PSJ10	Duct Joiner 100mm	10	
	PP0704	PSP7	Ceiling Cap 75mm	10	
	PP1004	PSP10	Ceiling Cap 100mm	10	
	PP0711	PSE7	End Cover 75mm	10	
	PP1009	PST10	T-Joint 100mm w/ 75mm reducers	5	
	PP1010	PSDR107	Reducing Socket 100 - 75mm	10	
	PPFDL16	FDP16	Drain Pipe 50M x 16mm Coil	1	
	POSLEEVE	SLEVE	Wall Penetration Sleeve	1	
	EPISOL20	NL120S	20amp Isolator NHP	24	

Wall and Roof Brackets

	Stock Code	Vendors Code	Description	Pack Qty	
Ground Mounting Feet					
	GDGA-M350	PSR362	Pacific Mounting Base 360mm	20	
	GDGA-M450	GA-M450	Pacific Mounting Base 450mm	20	
	POLYSLAB	PS465	Polyslab Medium Base 465 x 885 x 51mm	1	
Wall and Roof Brackets					
	PPSGK1	PSGK81	Pacific Wall Bracket D450 x L800 x H380mm 100kg	1	
	PSGKL83	PSGKL83	550MM Wall Bracket 150KG (800mm Bar)	1	
	PPSGY1	PSGY1	Pacific Roof Bracket D400 x L730mm 100KG	1	
	ACBRACKET1		Cantilever Bracket Arms (Set of 2) 450mm HDG	1	
	ACBKITCHCOACH		Coach Bolt Mounting Kit for Cantilever Brackets	1	
Monkeytoe Single Roof Mounts					
	MTNS121		Roof Kit 120kg 1.2m Purlin 150mm Adjustable		
	MTNS123		Roof Kit 120kg 1.2m Purlin 300mm Adjustable		
	MTNS126		Roof Kit 120kg 1.2m Purlin 600mm Adjustable		
	MTNS181		Roof Kit 120kg 1.8m Purlin 100mm Adjustable		
	MTNS183		Roof Kit 120kg 1.8m Purlin 300mm Adjustable		
	MTNS186		Roof Kit 120kg 1.8m Purlin 600mm Adjustable		
Monkeytoe Single Roof Mounts					
	MTNH121		Roof Kit 300kg -1.2m Purlin 150mm Adjustable		
	MTNH123		Roof Kit 300kg -1.2m Purlin 300mm Adjustable		
	MTNH126		Roof Kit 300kg -1.2m Purlin 600mm Adjustable		
	MTNH181		Roof Kit 300kg -1.8m Purlin 100mm Adjustable		
	MTNH183		Roof Kit 300kg -1.8m Purlin 300mm Adjustable		
	MTNH186		Roof Kit 300kg -1.8m Purlin 600mm Adjustable		
Monkeytoe Roof Mount Accessories					
	MT0300		150mm Upright		
	MT0301		300mm Upright		
	MT0302		600mm Upright		
	MT0400		DIMONDEK 400 FIXING DETAIL (SKU: AP300)		
	MT0200		MT M10 Stainless Steel Spring Nut		
	MT0161		PM03 Roofing Clip Kit-20kg with Timber Tek screws RC01.075C		
	MT0151		Isolator Box Fixing Plate CS015		
	MT0102		Wall Mount Bracket Set 80Kg		
	Refspecs stock a wide range of Monkeytoe Spares and accessories. Please call your local branch on 0800 996 003 for more information.				

Driers Sightglasses

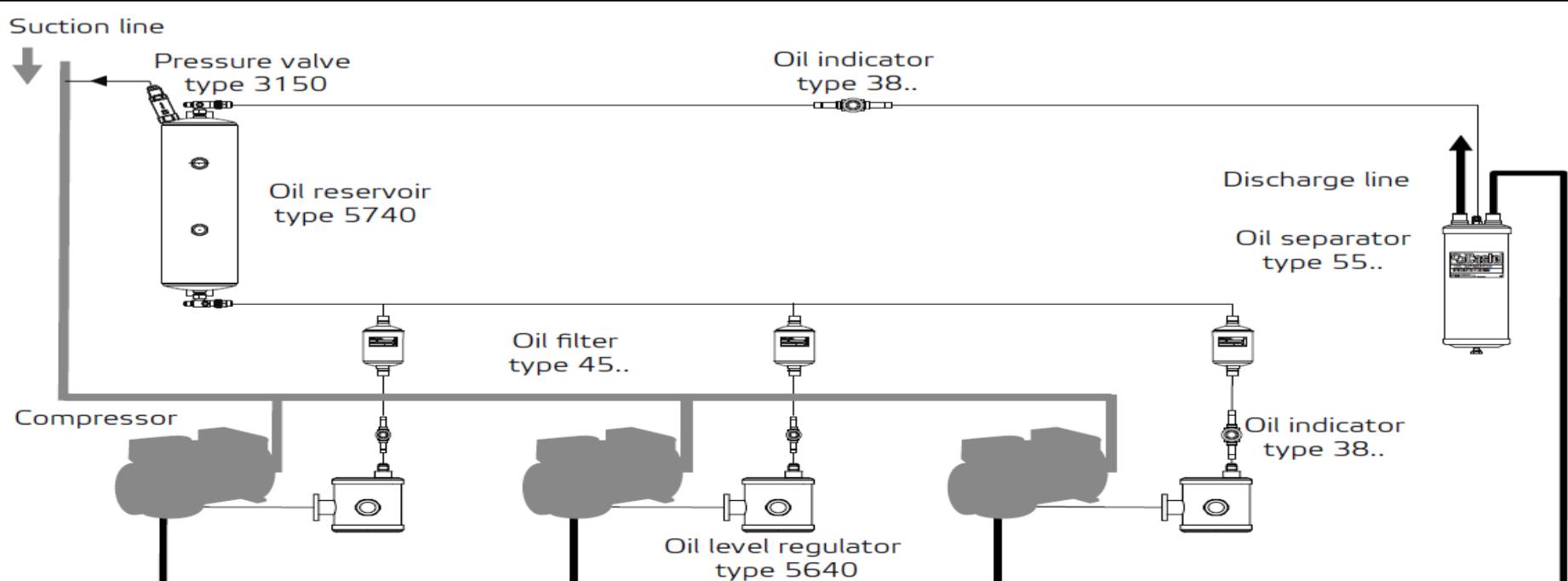
	Stock Code	Vendors Code	Description	
Drier Solid Core				
	DC0001	4490/A	Drier Core Solid 800 CC	
	DC0002	4490/AA	Drier Core Solid Antacid 800 CC	
	DC0007	4490/AB	Drier Core Solid - CO ₂	
	DC0003	4495/C	Suction Strainer Core	
	DC0004	DA48	Burnout Drier Core	
	DC0005	111047	Castel Gasket Set, suits most shells	
Liquid Line Driers Solid Core Molecular Sieve				
	DS2032	4303/2	Drier 032 1/4" MF	
	DS2052	4305/2	Drier 052 1/4" MF	
	DS2082	4308/2	Drier 082 1/4" MF	
	DS2083	4308/3	Drier 083 3/8" MF	
	DS2163	4316/3	Drier 163 3/8" MF	
	DS2164	4316/4	Drier 164 1/2" MF	
	DS2304	4330/4	Drier 304 1/2" MF	
	DS2165	4316/5	Drier 165 5/8" MF	
	DS2305	4330/5	Drier 305 5/8" MF	
Sweat Driers with Solid Copper Tails				
	DS7032	3001-032S	Drier 032 1/4" SW	
	DS6052	3001-052S	Drier 052 1/4" SW	
	DS6082	3001-082S	Drier 082 1/4" SW	
	DS6083	3001-083S	Drier 083 3/8" SW	
	DS6163	3001-163S	Drier 163 3/8" SW	
	DS6164	3001-164S	Drier 164 1/2" SW	
	DS6304	3001-304S	Drier 304 1/2" SW	
	DS6165	3001-165S	Drier 165 5/8" SW	
	DS6305	3001-305S	Drier 305 5/8" SW	
	DS6415	3001-415S	Drier 415 5/8" SW	
Spun Copper Drier				
	MA-D111	D111	Spun Copper Drier Directional 1/4 x 1/4-Capillary	
Driers Sightglass Combo				
	DS5082	4108/2	Drier/Sightglass Combo 1/4 MF - 082	
	DS5083	4108/3	Drier/Sightglass Combo 3/8 MF - 083	
	DS5134	4116/4	Drier/Sightglass Combo 1/2 MF - 164	
Moisture Indicators				
	SGF006	3950/22	Moisture Indicator MF/FF 1/4"	45
	SGF009	3950/33	Moisture Indicator MF/FF 3/8"	45
	SGF012	3950/44	Moisture Indicator MF/FF 1/2"	45
	SGF016	3950/55	Moisture Indicator MF/FF 5/8"	45
	SGM006	3910/22	Moisture Indicator MF/MF 1/4"	45
	SGM009	3910/33	Moisture Indicator MF/MF 3/8"	45
	SGM012	3910/44	Moisture Indicator MF/MF 1/2"	45
	SGM016	3910/55	Moisture Indicator MF/MF 5/8"	45
	SGS006	3940/2	Moisture Indicator SW 1/4"	45
	SGS009	3940/3	Moisture Indicator SW 3/8"	45
	SGS012	3940/4	Moisture Indicator SW 1/2"	45
	SGS016	3940/5	Moisture Indicator SW 5/8"	45
	SGS022	3940/7	Moisture Indicator SW 7/8"	45
	SGS028	3940/9	Moisture Indicator SW 1 1/8"	45

Danfoss Driers , Biflow

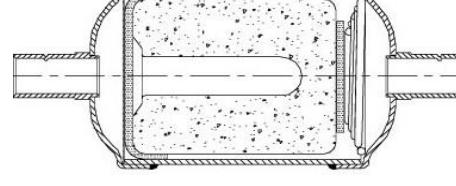
	Stock Code	Vendors Code	Description	
Drier Solid Core				
	DC0011	023U5381	48-DA Core 30% molecular sieve & 70% Al ₂ O ₃ Burn Out /Acid removal	
	DC0012	023U4381	48-DC Core 80% molecular sieve & 20% Al ₂ O ₃	
	DC0013	023U1921	DCR Strainer 48-F Felt-gasket, 15 µm	
	DC0014	023U1392	48-DM 100% molecular sieve	
Liquid Line Driers Solid Core Molecular Sieve Flare Driers				
	DS7004	023Z503591	Filter drier DML 032 1/4in M/32	
	DS7009	023Z503791	Filter drier DML 052 1/4in M/24	
	DS7015	023Z504091	Filter drier DML 083 3/8in M/24	
	DS7014	023Z504191	Filter drier DML 084 1/2in M/24	
	DS7026	023Z504491	Filter drier DML 164 1/2in M/12	
	DS7025	023Z504591	Filter drier DML 165 5/8in M/12	
Sweat Driers with Solid Copper Tails				
	DS7002	023Z504891	Filter drier DML 032S 1/4in M/32	
	DS7007	023Z505391	Filter drier DML 052S 1/4in M/24	
	DS7006	023Z505491	Filter drier DML 053S 3/8in M/24	
	DS7012	023Z505891	Filter drier DML 083S 3/8in M/24	
	DS7021	023Z506791	Filter drier DML 164S 1/2in M/12	
Bi Flow Driers				
	DSH083	SDXB-083	Bi-Flow Heat Pump Drier 3/8 MF 083	
	DSH083S	SDXB-083S	Bi-Flow Heat Pump Drier 3/8 SW 083	
	DSH084	SDXB-084	Bi-Flow Heat Pump Drier 1/2 MF 084	
	DSH084S	SDXB-084S	Bi-Flow Heat Pump Drier 1/2 SW 084	
	DSH163S	SDXB-163S	Bi-Flow Heat Pump Drier 3/8 SW 163	
	DSH164	SDXB-164	Bi-Flow Heat Pump Drier 1/2 MF 164	
	DSH164S	SDXB-164S	Bi-Flow Heat Pump Drier 1/2 SW 164	
	DSH165	SDXB-165	Bi-Flow Heat Pump Drier 5/8 MF 165	
	DSH165S	SDXB-165S	Bi-Flow Heat Pump Drier 5/8 SW 165	

Oil Line Components

	Stock Code	Vendors Code	Description	
Oil Lev Regulator				
	OC0001	5640/D	Oil Level Regulator with Sight Glass	
Adaptors				
	OC0100	5690/X01	Adaptor - 3 Bolt	
	OC0101	5690/X02	Adaptor - 1.1/8" UNF	
	OC0102	5690/X03	Adaptor - 1/8" UNF	
Oil Strainer				
	OC0105	4510/3	Oil Strainer	
	OD4005	S-4005	Henry 3/8" MF POE Oil Filter Drier	
Oil Reservoirs				
	OC0120	5740/3G	Oil Reservoir 7.5L	
	OC1035	3150/X01	Oil Reservoir Reg Valve 0.35Bar	
	OC1140	3150/X02	Oil Reservoir Reg Valve 1.4Bar	
Oil Separator				
	OS0012	5540/4	Oil Separator 1/2" SW	
	OS0016	5540/5	Oil Separator 5/8" SW	
	OS0022	5540/7	Oil Separator 7/8" SW	
	OS0028	5540/9	Oil Separator 1 1/8" SW	
	OS0035	5540/11	Oil Separator 1 3/8" SW	
	OS0042	5540/13	Oil Separator 1 5/8" SW	
	OS0054	5540/17	Oil Separator 2 1/8" SW	



Suction Line Components, Receivers

	Stock Code	Vendors Code	Description			
Suction Line Accumulators						
	SA0012	3100-084010A	Suction Line Accumulator 1/2"			
	SA0016	3100-104016P	Suction Line Accumulator 5/8"			
	SA0022	3100-145034P	Suction Line Accumulator 7/8"			
	SA0028	3100-186055P	Suction Line Accumulator 1.1/8"			
	SA0035	3100-226071P	Suction Line Accumulator 1.3/8"			
	SA0042	3100-226510	Suction Line Accumulator 1.5/8"			
	Model No.	Connection	Nominal Capacity +5SST (kW)		Holding Capacity Liquid	
			R 134a	R 404 A / R 507		
			Max	Max	L	
3100-084010A	1/2"	5.8	10.2	0.9		
3100-104016P	5/8"	8.7	11.4	1.53		
3100-145034P	7/8"	22.5	35.2	3.4		
3100-186055P	1-1/8"	44	60	5.5		
3100-226071P	1-3/8"	86.3	110	7.1		
3100-226510	1-5/8"	136	190	10.5		
Suction Line Driers						
	DSF0164	DCHSF 164S	Suction Line Filter Drier 164S 1/2" SW			
	DSF0305	DCHSF 305S	Suction Line Filter Drier 305S 5/8" SW			
	DSF0417	DCHSF 417S	Suction Line Filter Drier 417S 7/8" SW			
	DSF0419	DCHSF 419S	Suction Line Filter Drier 419S 1.1/8 SW			
						
Suction Strainer						
	DC0003	4495/C	Suction Strainer			
Vertical Liquid Receivers						
	LR0014	3310-064014	1.4 Litre 200 (H) x 100 (D) 3/4 R/L x 1/4 ID			
	LR0024	3310-064724	2.4 Litre 250 (H) x 120 (D) 3/4 RL x 3/8 ID			
	LR0044	3310-105544	4.4 Litre 330 (H) x 140 (D) 3/4 R/L x 1/2 ID			
	LR0082	3310-167082	8.2 Litre 390 (H) x 180 (D) - 1 R/L x 1 R/L			
	LR0109	3310-1670109	10.9 Litre 500 (H) x 180 (D) - 1 R/L x 1 R/L			
	LR0145	3310-1686145	14.5 Litre 430 (H) x 225 (D) - 1 R/L x 1 R/L			
Rotalock Valves						
	VM1909S	2600-061220	3/8" OD Rotalock Valve 3/4" Nut			
	VM1912S	2605-081220	1/2" OD Rotalock Valve 3/4" Nut			
	VM2512S	2605-081620	1/2" OD Rotalock Valve 1" Nut			
	VM2516	2605-101620	5/8" OD Rotalock Valve 1" Nut			
	VM3222	ACR401142030	7/8" OD Rotalock Valve 1.1/4" Nut			

Vibration Eliminators

	Stock Code	Vendors Code	Description	
	Vibration Eliminator			
	AV0009	7690/3	Vibration Eliminator 3/8" SW	
	AV0012	7690/4	Vibration Eliminator 1/2" SW	
	AV0016	7690/5	Vibration Eliminator 5/8" SW	
	AV0022	7690/7	Vibration Eliminator 7/8" SW	
	AV0028	7690/9	Vibration Eliminator 1 1/8" SW	
	AV0035	7690/11	Vibration Eliminator 1 3/8" SW	
	AV0042	7690/13	Vibration Eliminator 1 5/8" SW	
	AV0054	7690/17	Vibration Eliminator 2 1/8" SW	
	AV0067	7690/21	Vibration Eliminator 2 5/8" SW	

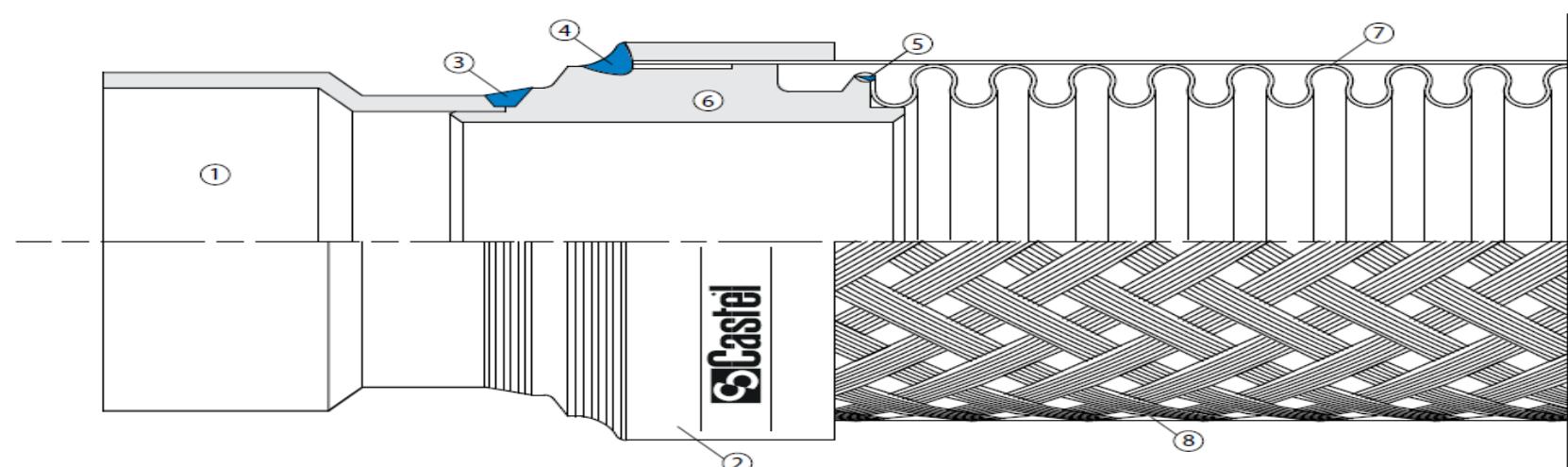


Figure 1

1 - Copper Connections
2 - Net holder
3 - Copper ends welding
4 - Wire braid welding

5 - Corrugated flexible welding
6 - Fitting
7 - Corrugated flexible
8 - Stainless steel wire braid

INSTALLATION

A vibration absorbers can be installed both on suction and discharge lines of a refrigerating system, as close as possible to the compressor. The vibration absorbers are not designed to compensate possible piping misalignment.

Vibration absorbers should be installed perpendicularly to the direction of vibrations. When vibrations exist on two planes, two vibrations absorbers should be used, as shown on fig 2 and 3. For the maximum absorption of vibrations, the refrigerant line should be anchored at the end of the vibration absorber, as shown on fig 2 and 3.

Castel vibration absorbers can be installed vertically too, because they are designed to avoid the retention of condensing water in the wavy zone near to the connections. So there are no problems to install them with temperatures lower than 0°C.

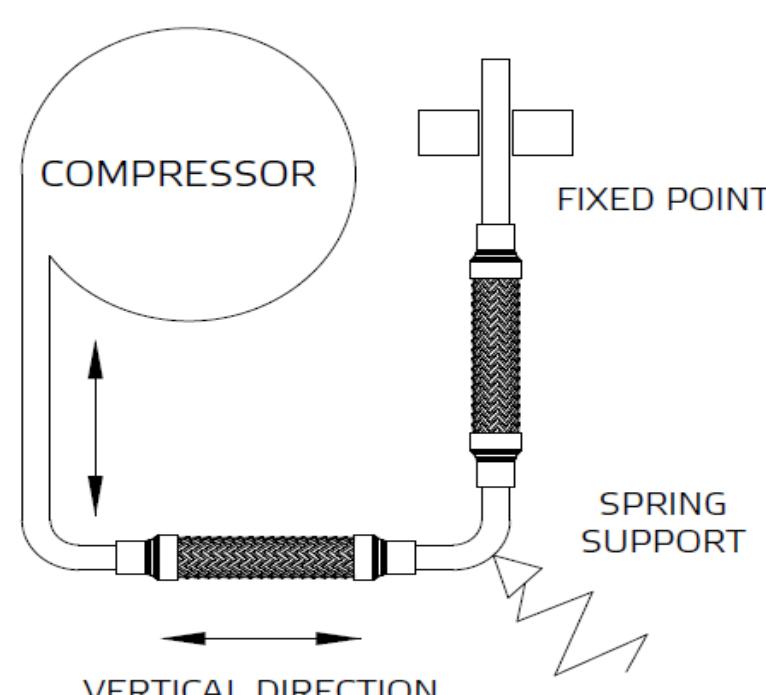
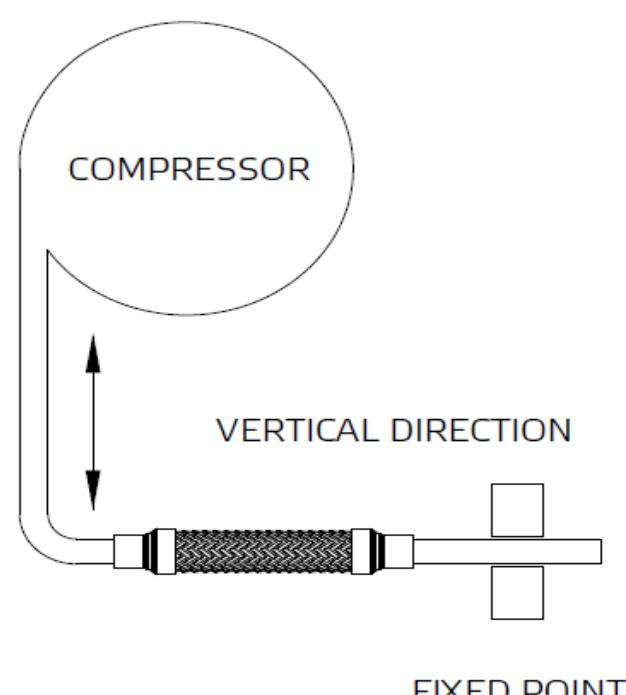
Vibration absorbers are not designed to absorb axial or torsion

stress. Care should be taken to allow sufficient space for the vibration to avoid static compression or tension, after brazing on place.

High speed of the refrigerant fluid can produce vibration and noise phenomena. In this case it's advisable to install a larger size of Vibration Absorber.

The connection of the vibration absorbers to the piping is normally performed by a brazing process. The specific design and construction of vibration absorbers allows welding without particular protections to prevent overheating.

WARNING! Ensure a gap corresponding to the 2% of the total length of the vibration absorber device to compensate for possible thermal expansion.



Ball Valves

	Stock Code	Vendors Code	Description	SWP	
Ball Valves 45Bar - with Access Port (AP)					
	VB0006	6570/2A	Ball Valve SW 1/4" AP	45	
	VB0009A	6570/3A	Ball Valve SW 3/8" AP	45	
	VB0012	6570/4A	Ball Valve SW 1/2" AP	45	
	VB0016	6570/5A	Ball Valve SW 5/8" AP	45	
	VB0022	6570/7A	Ball Valve SW 7/8" AP	45	
	VB0028	6570/9A	Ball Valve SW 1 1/8" AP	45	
	VB0035	6570/11A	Ball Valve SW 1 3/8" AP	45	
	VB0042	6590/13A	Ball Valve SW 1 5/8" AP	45	
	VB0054	6590/17A	Ball Valve SW 2 1/8" AP	45	
	VB0067	6590/21A	Ball Valve SW 2 5/8" AP Full Port	45	
	VB0080	6590/25A	Ball Valve SW 3 1/8" AP Full Port	45	
Ball Valves 80Bar CO₂ - Rated - With Access Port					
	VBC012-80	6570E/4A	Ball Valve SW 1/2" CO ₂ - Rated AP	80	
	VBC016-80	6570E/5A	Ball Valve SW 5/8" CO ₂ - Rated AP	80	
	VBC019-80	6570E/6A	Ball Valve SW 3/4" CO ₂ - Rated AP	80	
	VBC022-80	6570E/7A	Ball Valve SW 7/8" CO ₂ - Rated AP	80	
	VBC028-80	6570E/9A	Ball Valve SW 1.1/8" CO ₂ - Rated AP	80	
Ball Valves 45Bar - No Access Port					
	VBN0006	6570/2	Ball Valve SW 1/4" No Access Port	45	
	VBN0009	6570/3	Ball Valve SW 3/8" No Access Port	45	
	VBN0012	6570/4	Ball Valve SW 1/2" No Access Port	45	
	VBN0016	6570/5	Ball Valve SW 5/8" No Access Port	45	
	VBN0022	6570/7	Ball Valve SW 7/8" No Access Port	45	
	VBN0028	6570/9	Ball Valve SW 1.1/8" No Access Port	45	
	VBN0035	6570/11	Ball Valve SW 1 3/8" No Access Port	45	
	VBN0042	6590/13	Ball Valve SW 1 5/8" No Access Port	45	
	VBN0054	6590/17	Ball Valve SW 2 1/8" No Access Port	45	
Ball Valves 80Bar CO₂ - Rated - No Access Port					
	VBNC09	6570E/3	Ball Valve SW 3/8" CO ₂ - Rated No Access Port	80	
	VBNC12	6570E/4	Ball Valve SW 1/2" CO ₂ - Rated No Access Port	80	
	VBNC16	6570E/5	Ball Valve SW 5/8" CO ₂ - Rated No Access Port	80	
	VBNC19	6570E/6	Ball Valve SW 3/4" CO ₂ - Rated No Access Port	80	
	VBNC22	6570E/7	Ball Valve SW 7/8" CO ₂ - Rated No Access Port	80	
	VBNC28	6570E/9	Ball Valve SW 1.1/8" CO ₂ - Rated No Access Port	80	
Ball Valves 140Bar CO₂ - Rated					
	VBHP006-120	SV21A014R0005	1/4" CO ₂ Ball Valves 140Bar with Access Port	140	
	VBHP009-120	SV21A038K0000	3/8" CO ₂ Ball Valves 140Bar with Access Port	140	
	VBHP012-120	SV21A012K0000	1/2" CO ₂ Ball Valves 140Bar with Access Port	140	
	VBHP016-120	SV21B016K0000	5/8" CO ₂ Ball Valves 140Bar with Access Port	140	
	VBHP019-120	SV21B034K0000	3/4" CO ₂ Ball Valves 140Bar with Access Port	140	
	VBHP022-120	SV21C022K0000	7/8" CO ₂ Ball Valves 140Bar with Access Port	140	
	VBHP028-120	BV21D118K0018	1-1/8" CO ₂ Ball Valves 140Bar without Access Port	140	
	VBPH009-140	BV21D118K0018	3/8"Sw X 1/4" SAE CO ₂ Hybrid without Access Port	140	

Valves, EPR, CPR, Check, HSO

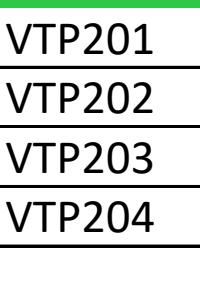
	Stock Code	Vendors Code	Description	SWP (bar)	
Evaporator Pressure Regulator Valves					
	VE0012	034L002300	Danfoss KVP12 1/2" OD Evap Pressure Regulator	18	
	VE0016	034L002900	Danfoss KVP15 5/8" OD Evap Pressure Regulator	19.8	
	VE0022	034L002500	Danfoss KVP22 7/8" OD Evap Pressure Regulator	19.8	
	VE0028	034L002800	Danfoss KVP28 1 1/8" OD Evap Pressure Regulator	18	
	VE0035	034L003200	Danfoss KVP35 1.3/8" OD Evap Pressure Regulator	19.8	
Crankcase Pressure Regulator					
	VR0016	034L004900	Danfoss KVL15 5/8" OD Crankcase Pressure Regulator	19.8	
	VR0022	034L004500	Danfoss KVL22 7/8" OD Crankcase Pressure Regulator	18	
	VR0028	034L004600	Danfoss KVL28 1.1/8" OD Crankcase Pressure Regulator	18	
Check Valves					
	VK0006	3112/2	Check Valve 1/4" MF	45	
	VK0009	3112/3	Check Valve 3/8" MF	45	
	VK0012	3112/4	Check Valve 1/2" MF	45	
	VK0016	3112/5	Check Valve 5/8" MF	45	
	VK1006	3132/2	Check Valve 1/4" SW Br	45	
	VK1009	3132/3	Check Valve 3/8" SW Br	45	
	VK1022	3122/7	Check Valve 7/8" SW Br	45	
	VK1028	3122/9	Check Valve 1 1/8" SW Br	45	
	VK1035	3122/11	Check Valve 1 3/8" SW Br	45	
	VK1042	3122/13	Check Valve 1 5/8" SW Br	45	
	VK1054	3122/17	Check Valve 2 1/8" SW Br	45	
Diaphragm Valves					
	VHS006	6210/2	Hand Shut Off Valve 1/4" MF	28	
	VHS009	6210/3	Hand Shut Off Valve 3/8" MF	28	
Hand Shut Off Valves					
	VH0042	6532/13	Castel Angle Valve 1.5/8 SW	45	
	VH0054	6512/17	Castel Globe Straight Through Valve 2.1/8" SW	45	

Castel TX Valves

	Stock Code	Vendors Code	Description															
Expansion Valves R134A																		
	VT1001	2220/4	TX Valve R134a MF int eql															
	VT1002	2220/4E	TX Valve R134a MF ext eql															
	VT1003	2220/4S	TX Valve R134a MF x SW int eql															
	VT1004	2220/4SE	TX Valve R134a MF x SW ext eql															
Expansion Valves R22/R407c																		
	VT2001	2210/4	TX Valve R22/R407c MF int eql															
	VT2002	2210/4E	TX Valve R22/R407c MF ext eql															
	VT2003	2210/4S	TX Valve R22/R407c MF x SW int eql															
	VT2004	2210/4SE	TX Valve R22/R407c MF x SW ext eql															
Expansion Valves R404a/R507																		
	VT4001	2230/4	TX Valve R404a/R507 MF int eql															
	VT4002	2230/4E	TX Valve R404a/R507 MF ext eql															
	VT4003	2230/4S	TX Valve R404a/R507 MF x SW int eql															
	VT4004	2230/4SE	TX Valve R404a/R507 MF x SW ext eql															
	VT4009	2234/4	TX Valve R404a/R507 MF int eql MOP -20C															
	VT4010	2234/4E	TX Valve R404a/R507 MF ext eql MOP -20C															
	VT4013	2231/4SE	TX Valve R449A / R404a / R507 MF x SW Ext eql MOP +15C															
TABLE 1b: General Characteristics of Body Assemblies of MOP Charge Thermostatic Expansion Valves																		
Catalogue number	Connections								Refrigerant	Evaporating temperature range [°C]	MOP	Max bulb temperature [°C]	TS [°C]		PS [bar]	Risk Category according to PED		
	SAE Flare			ODS [mm]		ODS [in]		min					max					
	internal equalizer	external equalizer	IN	OUT	Equal.	OUT	Equal.	OUT					Equal.	min			max	
2211/4	-	3/8"	1/2"	-	-	-	-	-	R22 R407C	+ 15 °C (95 psi)	- 40 > + 10	+ 15 °C (55 psi)	100 (1)	-60	+120	34	Art. 3.3	
2211/M12S			-	-	12	-	-	-										-
2211/4S			-	-	-	-	-	1/2"										-
2211/4E			2211/4E	1/2"	1/4"	-	-	-										-
2211/M12SE	2211/M12SE		-	-	12	6	-	-	R134a	+ 15 °C (55 psi)	+ 15 °C (120 psi)	+ 15 °C (120 psi)	-60	+120	34	Art. 3.3		
2211/4SE	2211/4SE		-	-	-	-	1/2"	1/4"										
2221/4	-		2221/4E	1/2"	-	-	-	-										
2221/M12S			2221/M12SE	-	-	12	6	-									-	
2221/4S			2221/4SE	-	-	-	-	1/2"	1/4"									
2221/4E			2221/4E	1/2"	1/4"	-	-	-	-									
2221/M12SE	2221/M12SE		-	-	12	6	-	-	R404A R507	+ 15 °C (120 psi)	- 60 > - 25	- 20 °C (30 psi)	-60	+120	34	Art. 3.3		
2221/4SE	2221/4SE		-	-	-	-	1/2"	1/4"										
2231/4	-	2231/4E	1/2"	-	-	-	-											
2231/M12S		2231/M12SE	-	-	12	6	-	-										
2231/4S		2231/4SE	-	-	-	-	1/2"	-										
2231/4E		2231/4E	1/2"	1/4"	-	-	-	-										
2231/M12SE	2231/M12SE	-	-	12	6	-	-	R404A R507	+ 15 °C (120 psi)	- 60 > - 25	- 20 °C (30 psi)	-60	+120	34	Art. 3.3			
2231/4SE	2231/4SE	-	-	-	-	1/2"	1/4"											
2234/4	-	2234/4E	1/2"	-	-	-	-											
2234/M12S		2234/M12SE	-	-	12	6	-									-		
2234/4S		2234/4SE	-	-	-	-	1/2"	-										
2234/4E		2234/4E	1/2"	1/4"	-	-	-	-										
2234/M12SE	2234/M12SE	-	-	12	6	-	-	R404A R507	+ 15 °C (120 psi)	- 60 > - 25	- 20 °C (30 psi)	-60	+120	34	Art. 3.3			
2234/4SE	2234/4SE	-	-	-	-	1/2"	1/4"											

(1) When valve is installed, 60 °C with element not mounted

Castel TX Valves, Orifices

	Stock Code	Vendors Code	Description		
Expansion Valve Orifices					
 	VTP001	220X	TX Valve Orifice 0X		
	VTP002	2200	TX Valve Orifice 0		
	VTP003	2201	TX Valve Orifice 1		
	VTP004	2202	TX Valve Orifice 2		
	VTP005	2203	TX Valve Orifice 3		
	VTP006	2204	TX Valve Orifice 4		
	VTP007	2205	TX Valve Orifice 5		
	VTP008	2206	TX Valve Orifice 6		
	VTP051	220X/S	TX Valve Orifice 0.38SW		
	VTP052	2200/S	TX Valve Orifice 0.7 SW		
	VTP053	2201/S	TX Valve Orifice 1.6 SW		
	VTP054	2202/S	TX Valve Orifice 2.1 SW		
	VTP055	2203/S	TX Valve Orifice 4.2 SW		
	VTP056	2204/S	TX Valve Orifice 6 SW		
	VTP057	2205/S	TX Valve Orifice 7.7 SW		
VTP058	2206/S	TX Valve Orifice 9.1 SW			
Expansion Valve Adaptors & Filters					
	VTP201	2271/2S	TX FF SW adapter 1/4"		
	VTP202	2271/3S	TX FF SW adapter 3/8"		
	VTP203	2290	TX Filter Flare		
	VTP204	2290/S	TX Filter Sweat		

Orifice No	Rated Capacity (KW)						
	R407C	R134A / R513a	R22	R404A MT	R404A LT	R449A MT	R449A LT
220X	0.6	0.5	0.6	0.4	0.3	0.8	0.8
2200	1.2	0.9	1.2	0.8	0.7	1.6	1.3
2201	2.5	1.4	2.8	1.9	1.2	3.0	2.0
2202	3.6	2.0	4.1	2.9	1.7	3.9	2.4
2203	6.5	3.6	7.4	5.2	3.1	6.6	4.1
2204	9.6	5.3	11.0	7.8	4.6	9.9	6.0
2205	12.2	6.8	14.0	9.8	5.8	12.9	7.9
2206	14.9	8.0	17.0	12.0	7.1	15.7	9.5

* The rated capacity is based on: Evaporating Temperatures te= -5°C MT & -24°C LT

Condensing Temperature tc=40°C

Refrigerant Temperature ahead of valve tl = +35°C

Danfoss TX Valves T2 & TE2

	Stock Code	Vendors Code	Description	
Expansion Valves R134a Range N: -40° to +10°C, Without MOP				
	VT5019	068Z3346	TX Valve R134a/R513a MF int eql	
	VT5017	068Z3348	TX Valve R134a/R513a MF ext eql	
	VT5011	068Z3383	TX Valve R134a/R513a MF x SW int eql	
	VT5010	068Z3385	TX Valve R134a/R513a MF x SW ext eql	
Expansion Valves R449a/R448a Range N: -40° to +10°C, Without MOP				
	VT5014	068Z3728	TX Valve R449a/R448a MF int eql	
	VT5015	068Z3727	TX Valve R449a/R448a MF ext eql	
	VT5012	068Z3729	TX Valve R449a/R448a MF x SW int eql	
	VT5013	068Z3730	TX Valve R449a/R448a MF x SW ext eql	
Expansion Valves R404a/R507 Range N: -40° to +10°C				
	VT5022	068Z3400	TX Valve R404a/R507 MF int eql	
	VT5020	068Z3403	TX Valve R404a/R507 MF ext eql	
	VT5023	068Z3402	TX Valve R404a/R507 MF int eql MOP +15C	
	VT5021	068Z3405	TX Valve R404a/R507 MF ext eql MOP +15C	
	VT5026	068Z3414	TX Valve R404a/R507 MF x SW int eql	
	VT5024	068Z3415	TX Valve R404a/R507 MF x SW ext eql	
	VT5027	068Z3416	TX Valve R404a/R507 MF x SW int eql MOP +15C	
	VT5025	068Z3417	TX Valve R404a/R507 MF x SW ext eql MOP +15C	
Expansion Valve Orifices				
	VT5000	068-2003	Orifice № 00 for T/TE 2	
	VT5001	068-2010	Orifice № 01 for T/TE 2	
	VT5002	068-2015	Orifice № 02 for T/TE 2	
	VT5003	068-2006	Orifice № 03 for T/TE 2	
	VT5004	068-2007	Orifice № 04 for T/TE 2	
	VT5005	068-2008	Orifice № 05 for T/TE 2	
	VT5006	068-2009	Orifice № 06 for T/TE 2	
	VT5007	068-2002	Orifice № 0X for T/TE 2	

Capacity in KW for Castel N -40°C to +10°C

Orifice No	Rated Capacity (KW)*							
	R407C	R134A / R513a	R404A	R452A	R407F	R449 MT	R449A LT	
OX	9.0	0.6	0.6	0.7	1.0	0.8	0.8	
00	1.7	1.1	1.2	1.3	1.9	1.6	1.3	
01	3.1	1.8	2.4	2.4	3.5	3.0	2.0	
02	3.9	2.1	3.1	3.2	4.5	3.9	2.4	
03	6.6	3.5	5.4	5.4	7.8	6.6	4.1	
04	9.8	5.2	8.3	8.3	11.6	9.9	6.0	
05	13.0	6.9	10.9	10.6	15.3	12.9	7.9	
06	15.6	8.2	13.1	13.2	18.4	15.7	9.5	

* The rated capacity is based on: Evaporating Temperatures te = -5°C MT & -24°C LT

Condensing Temperature tc = +40°C

Refrigerant Temperature ahead of valve tl = +35°C

Danfoss TX Valves TE 5 - 55 SERIES

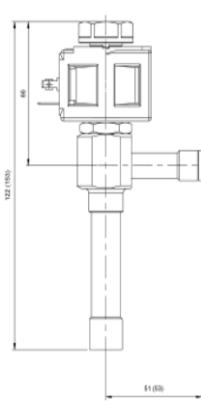
	Stock Code	Vendors Code	Description			
DANFOSS TE 5 - 20 Series Elements						
	VT5060	067B3297	TE 5 Element N R134a/R513a -40 to +10			
	VT5061	067B3232	TE 12 Element N R134a/R513a -40 to +10			
	VT5062	067B3252	TE 5 Element N R449a/R448 -40 to +10			
	VT5063	067B2512	TE 12 Element N R449a/R448 -40 to +10			
	VT5064	067B3294	TE 20 Element N R449a/R448 -40 to +10			
DANFOSS TE 5 - 20 Series Body						
	VT5049	067B4013	TE5 1/2" X 5/8" Angle Flare			
	VT5054	067B4007	TE5 1/2" X 5/8" Straight SW			
	VT5053	067B4008	TE5 1/2" X 7/8" Straight SW			
	VT5052	067B4009	TE5 1/2" X 5/8" Angle SW			
	VT5051	067B4010	TE5 1/2" X 7/8" Angle SW			
	VT5050	067B4011	TE5 5/8" X 7/8" Angle SW			
	VT5055	067B4034	TE 5 7/8" X 1 1/8" Angle SW			
	VT5057	067B4023	TE12/20 7/8" X 1 1/8" Angle			
DANFOSS TE 5 - 20 Valve Orifices						
	VT5065	067B2788	TE 5 Orifice 0,5			
	VT5066	067B2789	TE 5 Orifice 01			
	VT5067	067B2790	TE 5 Orifice 02			
	VT5068	067B2791	TE 5 Orifice 03			
	VT5069	067B2792	TE 5 Orifice 04			
	VT5070	067B2708	TE 12 Orifice 05			
	VT5071	067B2709	TE 12 Orifice 06			
	VT5072	067B2710	TE 12 Orifice 07			
	VT5073	067B2771	TE 20 Orifice 08			
	VT5074	067B2773	TE 20 Orifice 09			
Capacity in KW for Castel N -40°C to +10°C						
Valve type	Orifice No	Rated Capacity (KW)*				
		R407C	R134A / R513a	R404A	R407A	R407F
TE5	0.5	10.7	6.68	8.17	10.3	11.0
	1	19.6	12.2	14.9	18.8	20.3
	2	27.2	17.0	20.5	25.9	28.1
	3	34.8	21.8	26.3	33.3	35.8
	4	47.4	29.7	35.7	45.3	49
TE12	5	55.8	37.7	50.7	56	71
	6	73.9	50.1	64.0	75	95
	7	94.2	65.7	81.3	96	115
TE20	8	118	77.8	87.1	126	141
	9	136	92.3	102.0	148	161

*The rated capacity is based on: Evaporating temperature te = 4.4 °C Condensing temperature tc = 38 °C
 Refrigerant temperature ahead of valve tl = 37 °C

Sporlan TX Valves

	Stock Code	Vendors Code	Description	Nominal Capacity Range KW			
				R404A	R22	R134A	
Sporlan BQ TX Valves							
	VTB001	168198	Sporlan BQ Valve Body SBQE-ODF				
Sporlan BQ Orifice							
	VTPAAA		Sporlan BQ Orifice - AAA - Red	0.4 - 0.7	0.4 - 1.2	0.4 - 0.7	
	VTPAA	168304	Sporlan BQ Orifice - AA - Yellow	0.7 - 1.6	1.2 - 2.3	0.7 - 1.6	
	VTPA	168306	Sporlan BQ Orifice - A - Blue	1.7 - 3.5	2.6 - 5.3	1.7 - 3.5	
	VTPB	168307	Sporlan BQ Orifice - B - Pink	3.5 - 7.0	6.1 - 10.5	4.4 - 7.0	
	VTPC	168308	Sporlan BQ Orifice - C - White	7.0 - 10.5	11.4 - 19.3	7.0 - 10.5	
Parker / Sporlan Power Elements							
	VTP300	180384P	Sporlan KT43 FZP / Parker KT46-JX60			-25°C to +15°C MOP	
	VTP301	180377P	Sporlan KT43 JC / Parker KT46-JW			-35°C to +15°C Commercial	
	VTP302	180418P	Sporlan KT43 VZ / Parker KT46-VX35		-40°C to -20°C LT MOP		
	VTP303	180402P	Sporlan KT43 VZP / Parker KT46-VX100		-25°C to +15°C Commercial MOP		
	VTP304	180401P	Sporlan KT43 VC / Parker KT46-VW		-35°C to +15°C Commercial		
	VTP352	180230	Sporlan BQ KT-43-SZP Element	-40°C to -20°C LT Mop			
	VTP351	180318	Sporlan BQ KT-43-SZ Element	-40°C to -20°C LT			
	VTP350	180204	Sporlan BQ KT-43-SC Element	-35°C to +15°C Commercial			
	VTP307	181222P	Parker/Sporlan KT-46-ZX200 Element	R410A Commercial MOP -25°C to +15°C R410A Air Conditioning 0°C to +15°C R410A Heat Pump -25°C to +15°C			
Sporlan S Series MT TX Valves							
	VT2011	SSE-4-C	Sporlan SSE-4-SC TX Valve	13.7			
	VT2012	SSE-6-C	Sporlan SSE-6-SC TX Valve	20.5			
	VT2022	SSE-7-C	Sporlan SSE-7-SC TX Valve	23.9			
		SSE-10-C	Sporlan SSE-10-SC TX Valve	34.1			
Sporlan S Series LT TX Valves							
	VT2020	SSE-4-Z	Sporlan SSE-4-Z TX Valve	13.7			
	VT2021	SSE-4-ZP	Sporlan SSE-4-ZP MOP TX Valve	13.7			
		SSE-6-Z	Sporlan SSE-6-Z TX Valve	20.5			
		SSE-6-ZP	Sporlan SSE-6-ZP MOP Tx Valve	20.5			
		SSE-7-Z	Sporlan SSE-7-Z TX Valve	23.9			
	VT2019	SSE-7-ZP	Sporlan SSE-7-ZP MOP TX Valve	23.9			
	VT2014	SSE-10-Z	Sporlan SSE-10-Z TX Valve	34.1			
		SSE-10-ZP	Sporlan SSE-10-ZP MOP TX Valve	34.1			

Castel Electronic TX Valves

	Stock Code	Vendors Code	Description	
Solenoid Expansion Valves				
	VTS001	2028/3S01	ETVX 01 Solenoid Expansion Valve	
	VTS002	2028/3S02	ETVX 02 Solenoid Expansion Valve	
	VTS003	2028/3S03	ETVX 03 Solenoid Expansion Valve	
	VTS004	2028/3S04	ETVX 04 Solenoid Expansion Valve	
	VTS005	2028/3S05	ETVX 05 Solenoid Expansion Valve	
	VTS006	2028/3S06	ETVX 06 Solenoid Expansion Valve	
	VTS007	2028/4S07	ETVX 07 Solenoid Expansion Valve	

Orifice Dimensions Dimensions	N° catalogue Part number N° Catalogue Katalog Nr.	Type orifice Orifice type Type of orifice Öffnungs- art Typ	Dimensions Dimensions Dimensions Type	Affection Environnement Reichweite Ausdehnung				H (mm)	P ₁ (bar)	T ₁ (°C)		Conditions of gas Packaging gas- Verpackung			
				In		Out				Min	Max				
				H (mm)	W (mm)	H (mm)	W (mm)								
	2028/3S01	01		307	-	307	-	0.010							
	2028/PM15521			-	10	-	10								
	2028/3S02	02		307	-	307	-	0.017							
	2028/PM15522			-	10	-	10								
	2028/3S03	03		307	-	307	-	0.020							
	2028/PM15523			-	10	-	10								
	2028/3S04	04		307	-	307	-	0.040							
	2028/PM15524			-	10	-	10								
	2028/3S05	05		307	-	307	-	0.060							
	2028/PM15525			-	10	-	10								
	2028/3S06	06		307	-	307	-	0.100							
	2028/PM15526			-	10	-	10								
	2028/3S07	07		307	-	307	-	0.200							
	2028/PM15527			-	10	-	10								
	2028/3S08	08		307	-	307	-	0.250							
	2028/PM15528			-	10	-	10								
	2028/3S09	09		307	-	307	-								
	2028/PM15529			-	10	-	10								

N° catalogue Part number N° Catalogue Katalog Nr.	Type orifice Orifice type Type of orifice Öffnungs- art Typ	Rated capacity (1) Capacity nominale (1) Nomalbelastungen (1) [kW]																		
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19
9150/VR63	01	0.7	2.4	0.7	1.2	1.2	0.6	0.6	1.0	1.1	0.6	0.9	1.5	1.1	0.8	1.9	1.2	1.2	2.2	
9150/VR64	02	1.5	4.9	1.5	2.4	2.3	1.2	1.1	2.0	2.3	1.3	1.8	3.1	2.2	1.6	3.8	2.5	2.4	4.4	
9150/VR65	03	1.7	5.7	1.7	2.8	2.7	1.4	1.3	2.1	2.7	1.5	2.1	3.6	2.6	1.8	4.5	2.9	2.9	5.2	
9150/VR66	04	2.8	9.0	2.8	4.6	4.4	2.2	2.1	3.9	4.3	2.4	3.5	5.9	4.3	3.1	7.1	4.7	4.7	8.4	
9150/VR67	05	4.8	16.0	4.8	17	17	8.0	8.7	6.6	7.4	4.3	5.9	10.1	7.3	6.3	12.4	8.1	8.0	14.4	
9150/VR68	06	6.7	22.1	6.6	10.7	10.5	5.3	5.1	9.2	10.2	5.7	8.2	14.0	10.1	7.4	17.2	11.3	11.1	20.0	
9150/VR69	07	10.5	34.9	10.5	16.8	16.5	8.4	8.0	14.6	16.2	9.0	10.0	22.1	16.0	11.7	27.2	17	17	31.3	
9150/VR70	08	12.7	42.0	12.6	20.3	19.9	10.1	9.6	13.5	19.0	10.0	10.0	20.6	18.3	14.1	32.7	21.4	21.0	37.9	
9150/VR72	09	14.1	46.5	14.0	22.5	22.1	11.2	10.7	13.4	21.6	12.0	12.3	20.4	21.4	15.8	36.3	23.7	23.3	42.0	

Valves, Receiver, PRV, Solenoid				
	Stock Code	Vendors Code	Description	
Receiver Valves				
	VM0606	6110/22	Receiver Valves 1/4" MF x 1/4" NPT	
	VM0609	6110/23	Receiver Valves 1/4" MF x 3/8" NPT	
	VM0906	6110/32	Receiver Valves 3/8" MF x 1/4" NPT	
	VM0909	6110/33	Receiver Valves 3/8" MF x 3/8" NPT	
Pressure Relief Valves				
	VP3006	3060/23C300	Pressure Relief Valve Angle 1/4" NPT x 3/8" SAE 300PSI	
	VP3012	3060/45C300	Pressure Relief Valve Angle 1/2" NPT x 5/8" SAE 300PSI	
	VP3506	3060/23C350	Pressure Relief Valve Angle 1/4" NPT x 3/8" SAE 350PSI	
	VP3509	3060/33C240	Pressure Relief Valve Angle 3/8" NPT x 3/8" SAE 350PSI	
	VP3512	3060/45C350	Pressure Relief Valve Angle 1/2" NPT x 5/8" SAE 350PSI	
	VP4006	3060/23C400	Pressure Relief Valve Angle 1/4" NPT x 3/8" SAE 400PSI	
	VP4009	3060/33C275	Pressure Relief Valve Angle 3/8" NPT x 3/8" SAE 400PSI	
	VP4012	3060/45C400	Pressure Relief Valve Angle 1/2" NPT x 5/8" SAE 400PSI	
	VP3612	3030/44C250	Pressure Relief Valve Angle 1/2" NPT x 3/4" G 25Bar	
	VP5812	3030/44C400	Pressure Relief Valve Angle 1/2" NPT x 3/4" G 40Bar	
	VPB4006BAR	3060/23C400	Pressure Relief Valve Angle 1/4" NPT x 3/8" SAE 40Bar	
	VPB4012BAR	3060/45C400	Pressure Relief Valve Angle 1/2" NPT x 5/8" SAE 40Bar	
	VPB4212BAR	3060/45C240	Pressure Relief Valve Angle 1/2" NPT x 5/8" SAE 42Bar	
2 Way Valve				
	VP1000	3032/44	2 Way Valve 1/2" NPT	
	VP1002	3032/64	2 Way Valve 3/4" x 1/2" NPT	
Solenoid Valves Spares				
	VS6001	9150/R02	Faston Connector	
	VS6002	9150/R45	Solenoid coil connector	
	VS6003	9900/X91	Magnet Tool	
Solenoid Coils				
	VS6225	9300/RA6	Coil Type HF2 220/230 VAC	
	VS8220	9160/RA6	Coil Type HM4 220/230 VAC	
	VST012	9120/RD1	Coil Type HM3 12 VDC	
	VST024	9120/RD2	Coil Type HM3 24 VDC	
	VS8024	9160/RA2	Coil Type HM4 24 VAC	
	VS9012	9160/RD1	Coil Type HM4 12 VDC	
	VS9024	9160/RD2	Coil Type HM4 24 VDC	
Solenoid Valves				
	VSF006	1020/2A6	NC Solenoid Valve 1/4" MF inc/coil	
	VSF009	1020/3A6	NC Solenoid Valve 3/8" MF inc/coil	
	VSF012	1064/4A6	NC Solenoid Valve 1/2" MF inc/coil	
	VSF016	1070/5A6	NC Solenoid Valve MF 5/8" inc/coil kV 2.61	
	VSF016L	1090/5A6	NC Solenoid Valve MF 5/8" inc/coil kV 3.8	
	VSS006	1028/2A6	NC Solenoid Valve 1/4" SW inc/coil	
	VSS009	1068/3A6	NC Solenoid Valve 3/8" SW inc/coil	
	VSS009D	1028/3A6	NC Solenoid Valve 3/8" SW inc/coil	
	VSS012	1078/4A6	NC Solenoid Valve 1/2" SW inc/coil	
	VSS015	1078/SA6	NC Solenoid Valve SW 5/8" inc/coil	
	VSS016	1098/5A6	NC Solenoid Valve SW 5/8" inc/coil	
	VSS022	1098/7A6	NC Solenoid Valve 7/8" SW inc/coil	
	VSS028	1078/9A6	NC Solenoid Valve 1 1/8" SW inc/coil	

Danfoss Solenoid Valves

	Stock Code	Vendors Code	Description	SWP (Bar)	
Solenoid Valves less Coil					
	VSD059	032F1201	EVR 2 Valve ODF-ODF 1/4in	38	
	VSD062	032F1204	EVR 3 Valve ODF-ODF 3/8in	45.2	
	VSD066	032L1212	EVR 6 Valve ODF-ODF 3/8in	38	
	VSD070	032L1209	EVR 6 Valve ODF-ODF 1/2in	45.2	
	VSD073	032L1214	EVR 10 Valve ODF-ODF 5/8in	45.2	
	VSD075	032L1228	EVR 15 Valve ODF-ODF 5/8in	45.2	
	VSD079	032L1254	EVR 20 Valve ODF-ODF 7/8in	38	
Solenoid Coils					
	VSD080	018F6702	Coil BE240AS 240V 50Hz		
	VSD081	018F6707	Coil BE024AS 24V 50Hz		

Evaporators, ICE


CAREL

eVD *ice*

Fitting EVD ICE

Stock Code	Description
	Unit price for system without UltraCap fitted E2V Series
	Unit price for system with UltraCap fitted E2V Series
	Unit price for system without UltraCap fitted E3V Series
	Unit price for system with UltraCap fitted E3V Series

Pricing does not include evaporator

Med Temp EVAPS

Stock Code	Model	Reducers needed	kW @ -5°C / 40°C					
			R449A	ExV model @ working point %	R134a	ExV model @ working point %	R513A	ExV model @ working point %
EL0130	HEA 2501 09 4	CFRB1612 /CFRB1609	1.48	E2V09 @ 50%	1.20	E2V09 @ 58%	1.20	E2V09 @ 65%
EL0170	HEA 3001 12 4	CFRB1612 /CFRB1609	2.06	E2V09 @ 65%	1.67	E2V09 @ 68%	1.67	E2V11 @ 60%
EL0330	HEA 3501 14 4	CFRB1612 /CFRB1609	2.10	E2V09 @ 68%	1.70	E2V14 @ 40%	1.70	E2V14 @ 43%
EL0300	HEA 2502 17 4	CFRB1612 /CFRB1609	2.86	E2V11 @ 61%	2.32	E2V14 @ 54%	2.32	E2V14 @ 55%
EL0480	HEA 3002 23 4	CFRB1612 /CFRB1609	4.18	E2V14 @ 57%	3.39	E2V18 @ 51%	3.39	E2V18 @ 60%
EL0500	HEA 2503 26 4	CFRB1612 /CFRB1609	4.19	E2V14 @ 58%	3.40	E2V18 @ 51%	3.40	E2V18 @ 60%
EL0670	HEA 3502 28 4	CFRB1612 /CFRB1609	4.39	E2V14 @ 61%	3.56	E2V18 @ 53%	3.56	E2V18 @ 62%
EL0650	HEA 2504 35 4	CFRB1612 /CFRB1609	5.60	E2V18 @ 59%	4.54	E2V18 @ 62%	4.54	E2V24 @ 43%
EL0740	HEA 3003 35 4	CFRB1612 /CFRB1609	6.33	E2V18 @ 64%	5.13	E2V18 @ 67%	5.13	E2V24 @ 48%
EL0897	HEA 4002 40 4	CFRB1612	7.48	E2V24 @ 43%	6.28	E2V24 @ 52%	6.28	E2V24 @ 58%
EL0970	HEA 3004 46 4	CFRB1612	8.33	E2V24 @ 48%	6.76	E2V24 @ 50%	6.76	E2V24 @ 58%
EL1132	HEA 4003 54 4	CFRB1612	9.44	E2V24 @ 51%	7.66	E2V24 @ 54%	7.66	E2V24 @ 63%
EL1345	HEA 3504 56 4	CFRB1612	9.51	E2V24 @ 52%	7.70	E2V24 @ 55%	7.70	E2V24 @ 63%
EL1470	HEA 3006 69 4	CFRB1612	12.55	E2V24 @ 62%	10.19	E2V30 @ 49%	10.19	E2V30 @ 56%
EL1875	HEA 5001 58 4	CFRB1612	13.45	E2V24 @ 65%	10.92	E2V30 @ 51%	10.92	E2V30 @ 59%
EL1873	HEA 4004 81 4	CFRB1612	15.62	E2V30 @ 54%	12.67	E2V30 @ 57%	12.67	E2V30 @ 65%
EL1877	HEA 5002 121 4	CFRB2216	24.41	E2V35 @ 62%	19.81	E3V45 @ 51%	19.81	E3V45 @ 66%
EL1878	HEA 5003 122 4	CFRB2216	31.12	E3V45 @ 57%	25.25	E3V45 @ 60%	25.25	E3V55 @ 62%
EL1879	HEA 5003 183 4	CFRB2216	37.88	E3V45 @ 65%	30.74	E3V45 @ 68%	30.74	E3V55 @ 70%

Low Temp EVAPS

Stock Code	Model		kW @ -25°C / 40°C				
			R449A	ExV model @ working point %	R452A	ExV model @ working point %	
ELD013	HEA 2501 09 4D	CFRB1612 /CFRB1609	1.13	E2V09 @ 60%	0.91	E2V09 @ 48%	
ELD017	HEA 3001 12 4D	CFRB1612 /CFRB1609	1.58	E2V09 @ 55%	1.47	E2V09 @ 66%	
ELD033	HEA 3501 14 4D	CFRB1612 /CFRB1609	1.80	E2V09 @ 63%	2.10	E2V11 @ 63%	
ELD024	HEA 2502 17 4D	CFRB1612 /CFRB1609	2.20	E2V11 @ 50%	1.88	E2V11 @ 58%	
ELD035	HEA 3002 23 4D	CFRB1612 /CFRB1609	3.16	E2V11 @ 64%	2.99	E2V14 @ 59%	
ELD036	HEA 2503 26 4D	CFRB1612 /CFRB1609	3.22	E2V11 @ 65%	2.86	E2V14 @ 57%	
ELD050	HEA 3502 28 4D	CFRB1612 /CFRB1609	4.26	E2V14 @ 57%	4.26	E2V18 @ 63%	
ELD047	HEA 2504 35 4D	CFRB1612 /CFRB1609	4.30	E2V14 @ 58%	3.86	E2V18 @ 59%	
ELD054	HEA 3003 35 4D	CFRB1612 /CFRB1609	4.86	E2V18 @ 53%	4.89	E2V18 @ 68%	
ELD065	HEA 4002 40 4D	CFRB1612	6.03	E2V18 @ 62%	6.45	E2V24 @ 50%	
ELD071	HEA 3004 46 4D	CFRB1612	6.40	E2V18 @ 64%	5.98	E2V24 @ 47%	
ELD081	HEA 4003 54 4D	CFRB1612	7.55	E2V24 @ 50%	8.50	E2V24 @ 61%	
ELD095	HEA 3504 56 4D	CFRB1612	8.40	E2V24 @ 51%	8.78	E2V24 @ 62%	
ELD107	HEA 3006 69 4D	CFRB1612	9.63	E2V24 @ 51%	8.81	E2V24 @ 62%	
ELD141	HEA 5001 58 4D	CFRB1612	9.52	E2V24 @ 51%	8.60	E2V24 @ 62%	
ELD135	HEA 4004 81 4D	CFRB1612	12.13	E2V24 @ 60%	13.00	E2V30 @ 60%	
ELD145	HEA 5002 121	CFRB2216	15.27	E2V24 @ 69%	18.22	E3V45 @ 57%	
ELD146	HEA 5003 122	CFRB2216	21.16	E2V35 @ 55%	21.78	E3V45 @ 64%	
ELD147	HEA 5003 183	CFRB2216	24.46	E2V35 @ 61%	25.23	E3V45 @ 70%	

Refspecs Parts Needed

VTE2BROOSM11 x 1
 VTSPKT0013P1 x 1
 VTE2VSTA0331 x 1
 VTEVDM011S51 x 1
 SP0035 x 1
 VM0006-SKY x 1

NOTE: If system does not have a Solenoid Valve.
 Extra component needed.

VTEVDMU00R11 x 1

Evaporators, HEA									
Medium & Low Temperature Evaporators Medium & Low Temperature Capacities @ -5°C sst & -25°C sst / 6 KTD									
Stock Code	Model	Capacity @ -4°C sst Watts R449A	Capacity @ -4°C sst Watts R134A/R513A	Optional Partial Defrost Total (kW)	Weight (Kg)	Dimensions (mm)			
						W	D	H	
EL0130	HEA 2501 09 4	1130	1027	0.44	13	702	430	385	
EL0170	HEA 3001 12 4	1832	1664	0.44	18	702	455	495	
EL0300	HEA 2502 17 4	2323	2111	0.73	24	1094	430	385	
EL0330	HEA 3501 14 4	2565	2330	0.88	17	702	435	495	
EL0480	HEA 3002 23 4	3727	3385	0.73	31	1094	455	495	
EL0500	HEA 2503 26 4	3524	3201	1.03	35	1486	430	385	
EL0650	HEA 2504 35 4	4810	4370	1.31	46	1878	430	385	
EL0670	HEA 3502 28 4	5185	4710	1.46	34	1094	435	495	
EL0740	HEA 3003 35 4	5613	5099	1.03	44	1486	455	495	
EL0897	HEA 4002 40 4	7788	7075	1.03	55	1486	460	565	
EL0970	HEA 3004 46 4	7406	6728	1.31	57	1878	455	495	
EL1132	HEA 4003 54 4	10455	9497	1.31	70	1878	460	565	
EL1470	HEA 3006 69 4	10962	9958	1.89	81	2662	455	495	
EL1345	HEA 3504 56 4	10509	9547	2.62	59	1878	435	495	
EL1875	HEA 5001 58 4	10650	9674	1.46	80	1165	600	760	
EL1873	HEA 4004 81 4	15670	14235	1.89	104	2662	460	565	
EL1877	HEA 5002 121 4	22056	20036	2.8	149	2015	600	760	
EL1878	HEA 5003 122 4	26237	23867	2.05	176	2865	600	760	
EL1879	HEA 5003 183 4	31606	28711	2.05	218	2865	600	760	
Stock Code	Model	Capacity @ -24°C sst (W) R452A	Capacity @ -24°C sst (W) R449A	Full Defrost Total (kW)	Weight (Kg)	Dimensions (mm)			
						W	D	H	
ELD013	HEA 2501 09 4D	920	849	1.32	14	702	430	385	
ELD017	HEA 3001 12 4D	1470	1477	1.76	19	702	430	495	
ELD024	HEA 2502 17 4D	1890	1774	2.19	25	1094	430	385	
ELD033	HEA 3501 14 4D	2090	2147	2.64	18	702	435	495	
ELD035	HEA 3002 23 4D	2990	3012	2.92	32	1094	455	495	
ELD036	HEA 2503 26 4D	2870	2698	3.09	36	1486	430	385	
ELD047	HEA 2504 35 4D	3850	3946	3.93	47	1878	430	385	
ELD050	HEA 3502 28 4D	4240	4379	4.38	35	1094	435	495	
ELD054	HEA 3003 35 4D	4510	4557	4.12	46	1486	455	495	
ELD065	HEA 4002 40 4D	6460	6305	2.75	57	1486	460	565	
ELD071	HEA 3004 46 4D	6000	5685	5.24	60	1878	455	495	
ELD081	HEA 4003 54 4D	8550	7968	6.55	73	1878	460	565	
ELD107	HEA 3006 69 4D	8850	8223	7.56	85	2662	455	495	
ELD095	HEA 3504 55 4D	8770	8613	7.86	62	1878	435	495	
ELD141	HEA 5001 58 4D	8640	8876	6.57	82	1165	600	760	
ELD135	HEA 4004 81 4D	13000	12737	9.45	109	2662	460	565	
ELD145	HEA 5002 121 4D	18220	17718	12.6	151	2015	600	760	
ELD146	HEA 5003 122 4D	21820	21011	14.35	178	2865	600	760	
ELD147	HEA 5003 183 4D	25440	23132	18.45	220	2865	600	760	
HEA Features:-									
HEA 300, 400 and 500 Series come with EBM Fans Clean white powder coated finish Pressure tested to 30 bar Defrost elements located in the coil and drain pan 12mm Copper tube coil									
 									

Evaporators, HEA CO2

Medium & Low Temperature Evaporators

Medium & Low Temperature Capacities @ -4°C sst & -24°C sst / 6 KTD

Stock Code	Model	Capacity @ -4°C sst Watts CO2	Capacity @ -24°C sst Watts CO2	Full Defrost Total (kW)	Weight (Kg)	Dimensions (mm)			List Price
						W	D	H	
ELDCO2302	HEA CO2 3002 15 6D	3330	2750	2920	26	1094	455	495	\$0.00
ELDCO2351	HEA CO2 3501 10 6D	2270	1850	2640	18	702	435	495	\$0.00
ELDCO2352	HEA CO2 3502 19 6D	4650	3820	4380	32	1094	435	495	\$0.00
ELDCO2353	HEA CO2 3503 28 6D	7030	5800	6180	46	1486	435	495	\$0.00
ELDCO2354	HEA CO2 3504 38 6D	9570	8070	7860	60	1878	435	495	\$0.00
ELDCO2355	HEA CO2 3505 48 6D	11800	9750	9600	74	2270	435	495	\$0.00
ELDCO2404	HEA CO2 4004 54 6D	13950	11640	9450	77.5	2662	460	565	

HEA Features:-

HEA Series come with EBM Fans

Clean white powder coated finish

Safe working pressure of 80 bar

Defrost elements located in the coil and drain pan



Evaporators, HEJ, HEC, HED

Medium & Low Temperature Evaporators

Medium & Low Temperature Capacities @ -4°C sst & -24°C sst

Stock Code	Model	Capacity @ -4°C sst 6 KTD R134A/R513A	Capacity @ -4°C sst 6 KTD R449A	Capacity @ -24°C sst Watts R449A	Electric Defrost Total (W)	Weight (Kg)	Dimensions (mm)			
							W	H	D	
ES0075	HEJ-1D	559	616	458	0.5	6	410	160	365	
ES0150	HEJ-2D	1154	1271	1010	0.8	10	735	160	365	
ES0220	HEJ-3D	1742	1918	1468	1.2	13	1060	160	365	
ES0300	HEJ-4D	2224	2448	1790	1.5	18	1385	160	365	



Stock Code	Model	Capacity @ -4°C sst 6 KTD R134A/R513A	Capacity @ -4°C sst 6 KTD R449A	Capacity @ -24°C sst Watts R449A	Electric Defrost Total (W)	Weight (Kg)	Dimensions (mm)			
							W	H	D	
ES0115	HEC 2501 06 4D	779	858	696	0.8	13	660	246	497	
ES0162	HEC 2501 09 4D	1062	1169	806	1.1	15	860	246	497	
ES0225	HEC 2502 12 4D	1579	1739	1426	1.4	22	1062	246	497	
ES0328	HEC 2502 18 4D	2167	2386	1824	2.0	27	1462	246	497	
ES0329	HEC 3002 21 4.5D	2125	2339	1892	3	35	1515	256	698	
	HEC 3002 32 4.5D	2932	4374	2783	3	42	1515	256	698	

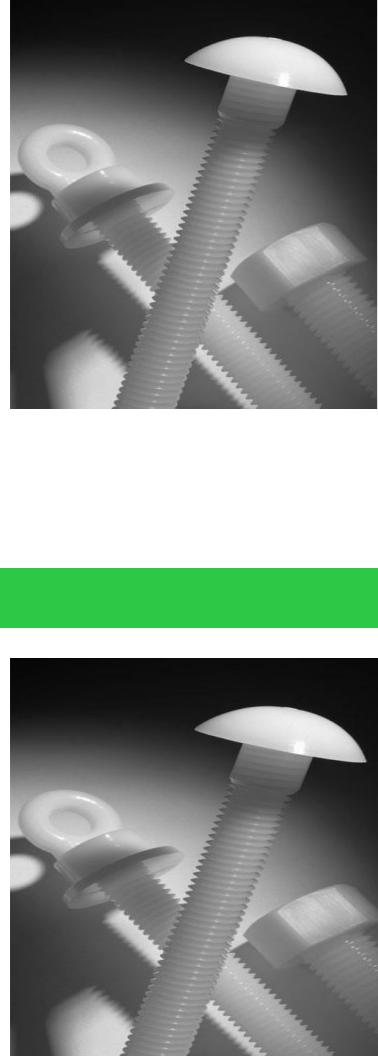


Stock Code	Model	Capacity @ -4°C sst 6 KTD R134A/R513A	Capacity @ -4°C sst 6 KTD R449A	Capacity @ 0°C 10 KTD R449A	Electric Defrost Total (W)	Weight (Kg)	Dimensions (mm)			
							W	H	D	
ET0413	HED 3501 16 4LD	1856	2043	3896	1.5	35	963	260	925	
ET0506	HED 3501 16 4ND	2365	2604	5103	1.5	35	963	260	925	
ET0827	HED 3502 31 4LD	3768	4148	7907	2.5	60	1565	260	925	
ET1010	HED 3502 31 4ND	4844	5333	10437	2.5	60	1565	260	925	
ET1540	HED 3503 47 4LD	5687	6260	11917	3.5	85	2167	260	925	
ET1520	HED 3503 47 4ND	7316	8054	15782	3.5	85	2167	260	925	
ET1650	HED 3504 62 4L	7181	7905	15928		110	2769	260	925	
ET1980	HED 3504 62 4N	8938	9839	21126		110	2769	260	925	



Evap Installation Accessories						
	Stock Code	Vendors Code	Description	Unit	Pack Quantity	
PVC Drain Pipe and Fittings						
	DP0015	15XCE	15mm PVC Drain Pipe 3.9m	EACH	20	
	DP0020	20XCE	20mm PVC Drain Pipe 3.9m	EACH	20	
	DP0025	25XCE	25mm PVC Drain Pipe 3.9m	EACH	10	
	DP0032	32XCE	32mm PVC Drain Pipe 3.9m	EACH	10	
	DP4515	2117015	15mm PVC 45D Elbow	EACH	10	
	DP4520	2117020	20mm PVC 45D Elbow	EACH	10	
	DP4525	2117025	25mm PVC 45D Elbow	EACH	10	
	DP4532	2117032	32mm PVC 45D Elbow	EACH	10	
	DP9015	2103015	15mm PVC 90D Equal Elbow	EACH	10	
	DP9020	2103020	20mm PVC 90D Equal Elbow	EACH	10	
	DP9025	2103025	25mm PVC 90D Equal Elbow	EACH	5	
	DP9032	2103032	32mm PVC 90D Equal Elbow	EACH	10	
	DPCT20	EZT113	20mm Cross Trap Clear	EACH	1	
	DPPT20	JTRAP	20mm Clear P-Trap	EACH	1	
	DPPS15	PPS084	15mm Full Pipe Saddle	EACH	100	
	DPPS20	PPS106	20mm Full Pipe Saddle	EACH	100	
	DPPS25	PPS143	25mm Full Pipe Saddle	EACH	100	
	DPPS32	PPS168	32mm Full Pipe Saddle	EACH	100	
	DPRB2015	2110020015	20mm x 15mm PVC Reducing Bush	EACH	5	
	DPRB2515	2110025015	25mm x 15mm PVC Reducing Bush	EACH	5	
	DPRB2520	2110025020	25mm x 20mm PVC Reducing Bush	EACH	5	
	DPRS2015	2109020015	20mm x 15mm PVC Reducing Socket	EACH	5	
	DPRS2515	2109025015	25mm x 15mm PVC Reducing Socket	EACH	5	
	DPRS2520	2109025020	25mm x 20mm PVC Reducing Socket	EACH	5	
	DPRS3225	2109032025	32mm x 25mm PVC Reducing Socket	EACH	5	
	DPS015	2108015	15mm PVC Double End Socket	EACH	10	
	DPS020	2108020	20mm PVC Double End Socket	EACH	10	
	DPS025	2108025	25mm PVC Double End Socket	EACH	5	
	DPS032	2108032	32mm PVC Double End Socket	EACH	5	
	DPST15	2111015	15mm PVC Female Threaded Socket	EACH	5	
	DPST20	2111020	20mm PVC Female Threaded Socket	EACH	5	
	DPST25	2111025	20mm PVC Female Threaded Socket	EACH	5	
	DPSMV15	2112015	15mm PVC Male Valve Socket	EACH	1	
	DPSMV20	2112020	20mm PVC Male Valve Socket	EACH	10	
	DPT015	2106015	15mm PVC Equal Tee	EACH	5	
	DPT020	2106020	20mm PVC Equal Tee	EACH	5	
	DPT025	2106025	25mm PVC Equal Tee	EACH	5	
	DPT032	2106032	32mm PVC Equal Tee	EACH	5	
	DPMU015	2122015	15mm PVC Mac Union	EACH	1	
	DPMU020	2122020	20mm PVC Mac Union	EACH	1	
	DPMU025	2122025	25mm PVC Mac Union	EACH	1	
	DPMU032	2122032	32mm PVC Mac Union	EACH	1	
	DPGLUE		PVC Solvent 250ml	EACH	1	

Evap Installation Accessories

	Stock Code	Vendors Code	Description	Unit	Pack Quantity		
Bolts 10mm							
	BBKITC		Bluemay Evaporator 4 Bolt Kit Chiller	KIT	1		
	BBKITF		Bluemay Evaporator 4 Bolt Kit Freezer	KIT	1		
	BBKITC6		Bluemay Evaporator 6 Bolt Kit Chiller	KIT	1		
	BBKITF6		Bluemay Evaporator 6 Bolt Kit Freezer	KIT	1		
	BB0150		Bluemay Buffalo Bolt 10mm x 150mm	EACH	1		
	BB0250		Bluemay Buffalo Bolt 10mm x 250mm	EACH	1		
	BBHN10		Bluemay Hex Nut 10mm Full	EACH	100		
	BBWM10		Bluemay Washer 10mm x 45mm Medium	EACH	1		
	BBWS10		Bluemay Washer 10mm x 21mm Standard	EACH	100		
Bolts 16mm							
	BBKITC-16		Bluemay Evaporator 4 Bolt Kit Chiller	KIT	1		
	BBKITF-16		Bluemay Evaporator 4 Bolt Kit Freezer	KIT	1		
	BBKITC6-16		Bluemay Evaporator 6 Bolt Kit Chiller	KIT	1		
	BBKITF6-16		Bluemay Evaporator 6 Bolt Kit Freezer	KIT	1		
	BB0156		Bluemay Buffalo Bolt 16mm x 150mm	EACH	1		
	BB0256		Bluemay Buffalo Bolt 16mm x 250mm	EACH	1		
	BBHN16		Bluemay Hex Nut 16mm Full	EACH	100		
	BBWM16		Bluemay Washer 10mm x 70mm Medium	EACH	1		
	BBWS16		Bluemay Washer 10mm x 30mm Standard	EACH	100		
Heat Trace							
	DHT025		Defrost Heat Trace 25w/m self terminating	Metre	1		
	DHTKIT		Connection Kit for Defrost Heat Trace	EACH	1		

Refspecs Condensing Units

Medium Temperature R134A/R513A - Standard Europe TE Operating Conditions @ + 32°C Ambient 220 240 Volt 50 Hz
Single Phase

Stock Code	Compressor Tecumseh	Nom HP	Capacity (Watts)			Disp cc	dBA @ 10 Mtr	Dimensions (mm)			Weight KG	
			-10	-5	0			W	D	H		
RCUY020M	AEZ4425Y	1/7	330	419	508	7.6	58	312	397	225	17.4	
RCUY025M	AEZ4430YHR	1/5	393	496	604	8.8	60	330	352	257	17	
RCUY038M	CAE4440YHR	1/3	519	638	768	12	61	330	352	257	18.9	
RCUY050M	CAJ4461YHR	1/2	782	958	1156	18.3	67	356	485	305	31.5	
RCUY075M	CAJ4492YHR	3/4	1179	1444	1742	25.9	71	430	486	338	40.5	
RCUY100M	CAJ4511YHR	1	1478	1792	2138	32.7	71	430	486	338	41	
RCUY150M	FH4518YHR	1 1/2	2250	2819	3463	53.2	76	512	620	450	59	
RCUY200M	FH4525YHR	2	2925	3629	4389	74.2	77	512	630	450	61	

Medium Temperature R449A - Standard Europe Operating Conditions @ + 32°C Ambient 220 240 Volt 50 Hz Single Phase

RCU033M	AEZ4440Z	1/3	535	658	794	7.75	66	356	490	295	21	
RCU050M	AEZ4460Z	1/2	743	890	1055	11.3	67	356	490	305	26	
RCU0625M	CAE4470Z	5/8	1025	1236	1467	13.3	69	430	490	338	32	
RCU075M	CAJ9480Z	3/4	1121	1382	1677	15.2	69	430	486	338	34	
RCU100M	CAJ9510Z	1	1365	1673	2022	18.3	71	430	486	338	41	
RCU112M	CAJ9513Z	1 1/8	1645	2026	2445	24.2	72	430	486	338	41	
RCU125M	CAJ4517Z	1 1/4	1947	2385	2879	25.9	74	510	620	450	48	
RCU150M	CAJ4519Z	1 1/2	2510	3089	3733	34.4	75	510	620	450	48	
RCU200M	FH4524Z	2	2984	3750	4604	43.5	76	510	630	450	56	
RCU250M	FH4531Z	2 1/2	3876	4857	5905	56.6	79	600	608	558	78	

380 440 Volt 50 Hz Three Phase

RCUT300M	TFH4540Z	3	4988	6153	7447	74.2	81	600	608	558	81	
RCUT375M	TAG4546Z	3 3/4	5414	6906	8601	90.2	86	1080	650	565	115	
RCUT500M	TAG4561Z	5	7236	9090	11173	112.5	84	1080	650	565	122	
RCUT625M	TAG4573Z	6	8884	11006	13373	134.8	85	1080	650	565	127	

Scroll Compressor Units - 220 240 Volt 50 Hz Single Phase

RCUS301M	ZB21KQE	3	5100	6300	7700	*8.6	66	600	600	558	75	
RCUS551M	ZB42KCE	5.5	10000	12300	14950	*16.2	71	1102	650	660	115	

Scroll Compressor Units - 380 440 Volt 50 Hz Three Phase

RCUS600M	ZB45KQE	6	10500	12750	15400	*17.2	42	1365	700	890	125	
RCUS700M	ZB48KQE	7	12050	14650	17700	*18.8	42	1365	700	890	125	
RCUS800M	ZB58KQE	8	12550	15850	19650	*22.2	48	1765	800	890	179	
RCUS900M	ZB66KQE	9	15400	18900	22800	*25.7	46	1765	800	890	179	
RCUS1000M	ZB76KQE	10	18200	22300	26900	*28.8	46	1765	800	988	220	
RCUS1300M	ZB95KQE	13	23850	28550	33900	*35.6	56	1417	815	871	210	
RCUS1500M	ZB114KQE	15	28250	34100	40700	*43.3	56	1417	815	871	210	

* Displacement is m³/h

Low Temperature R449A - Standard Europe TE Operating Conditions @ + 32°C Ambient 220 240 Volt 50 Hz Single Phase

			Capacity (Watts)											
			-30	-25	-20									
RCU100L	CAJ2446Z	1	720	948	1205	26.1	74	430	486	338	39			
RCU150L	CAJ2464Z	1 1/2	898	1170	1476	35.4	74	430	486	338	40			
RCU200L	FH2480Z	2	1359	1828	2360	53.2	76	510	630	450	57			
RCU300L	FH2511Z	3	1726	2299	2955	74.3	76	510	630	450	58			

380 440 Volt 50 Hz Three Phase

RCUT300L	TFH2511Z	3	1726	2299	2955	74.3	78	510	630	450	54	
RCUT400L	TAG2516Z	4	2432	3407	4547	112.5	78	1002	618	452	106	
RCUT500L	TAG2522Z	5	3152	4201	5419	134.8	80	1002	618	452	110	

Note: -

All Medium Temperature Units come complete with Dual Pressure

Switch (HP Man Reset) Fitted.

Refspecs Tropical Condensing Units

**Medium Temperature R134A / R513a - Standard Europe TE Operating Conditions @ + 32°C & + 43°C Ambient
220 240 Volt 50 Hz Single Phase**

Stock Code	Compressor Tecumseh	Nom HP	Capacity (Watts)		Disp cc	dBA @ 10 Mtr	Dimensions (mm)			Weight KG	
			- 5°C sst @ + 32° Ambient	- 5° sst @ + 43°C Ambient			W	D	H		
TCUY050M	CAJ4461YHR	1/2	958	842	18.3	67	430	495	340	34	
TCUY075M	CAJ4492YHR	3/4	1444	1270	25.9	71	510	615	450	42	
TCUY100M	CAJ4511YHR	1	1792	1576	32.7	71	510	615	450	42	
TCUY150M	FH4518YHR	1 1/2	2819	2479	53.2	76	600	600	558	72	
TCUY200M	FH4525YHR	2	3629	3189	74.2	77	600	600	558	75	

**Medium Temperature R449A - Standard Europe Operating Conditions @ + 32°C & +43°C Ambient
240 Volt 50 Hz Single Phase**

TCU050M	AEZ4470Z	1/2	1236	1064	13.3	69	495	430	340	35	
TCU075M	CAJ9480Z	3/4	1382	1160	15.2	69	495	430	340	41	
TCU100M	CAJ9510Z	1	1673	1407	18.3	71	615	510	450	43	
TCU112M	CAJ9513Z	1 1/8	2026	1687	24.2	72	615	510	450	45	
TCU125M	CAJ4517Z	1 1/4	2385	1995	25.9	74	615	510	450	51	
TCU150M	CAJ4519Z	1 1/2	3089	2584	34.4	75	600	600	558	72	
TCU200M	FH4524Z	2	3750	3074	43.5	76	600	600	558	73	
TCU250M	FH4531Z	2 1/2	4857	3937	56.6	79	1002	642	469	80	

380 440 Volt 50 Hz Three Phase

TCUT300M	TFH4540Z	3	6153	5145	74.2	81	1080	650	565	90	
TCUT375M	TAG4546Z	3 3/4	6906	5512	90.2	86	1080	650	565	115	
TCUT500M	TAG4561Z	5	9090	7390	112.5	84	1080	650	565	122	
TCUT625M	TAG4573Z	6	11006	9180	134.8	85	1080	650	565	127	

**Low Temperature R449A - Standard Europe TE Operating Conditions @ + 32°C & + 43°C Ambient
220 240 Volt 50 Hz Single Phase**

			Capacity (Watts)								
			- 25°C sst @ + 32°C Ambient	- 25°C sst @ + 43°C Ambient							
TCU100L	CAJ2446Z	1	948	756	26.1	74	430	495	340	39	
TCU150L	CAJ2464Z	1 1/2	1170	946	35.4	74	615	510	450	43	
TCU200L	FH2480Z	2	1828	1468	53.2	76	1002	618	469	101	
TCU300L	FH2511Z	3	2299	1877	74.3	76	1002	618	469	101	

380 440 Volt 50 Hz Three Phase

TCUT300L	TFH2511Z	3	2299	1877	74.3	76	1002	618	469	101	
TCUT400L	TAG2516Z	4	3407	2615	112.5	78	1002	618	469	108	
TCUT500L	TAG2522Z	5	4201	3325	134.8	80	1080	650	565	110	

Note: -

All Medium Temperature Units come complete with Dual Pressure Switch (HP Man Reset) Fitted.

Low Temp Units up to 2 HP come complete with Dual Pressure Control (HP Man Reset) & Accumulator Fitted.

All Low Temperature Units over 2HP come complete with Oil Sep, Accumulator, Dual Pressure Switch (HP Man Reset) Fitted.



Dorin Condensing Units

Medium Temperature

Performance Data is Based on European Standard EN 12900

Stock Code	Model	HP	Disp m3/hr	Refrigerant	kW Capacities @ 30°C Ambient							Dimensions (mm)			Weight KG	
					5	0	-5	-10	-15	-20	-25	W	D	H		
RUC0350MTY	H350CC	3.5	15.9	R449A	13.4	11.3	9.4	7.7	6.2	5.0	3.9	1215	920	635	118	
				R134A/R513A	9.4	7.7	6.2	4.9	3.8	2.9	2.2					
RUC0380MTY	H380CC	3.8	17.5	R449A		12.2	10.2	8.4	6.8	5.4	4.3	1215	920	635	110	
				R134A/R513A	10.1	8.3	6.7	5.3	4.2	3.2	2.4					
RUC0503MTY	H503CC	5	22.8	R449A	18.6	15.7	13.1	10.8	8.8	7.0	5.4	1215	920	635	155	
				R134A/R513A	13.4	11.0	8.9	7.0	5.5	4.2	3.1					
RUC0750MTY	H751CC	7.5	33.5	R449A	25.8	21.7	18.0	14.7	11.8	9.3	7.2	1415	920	840	192	
				R134A/R513A	18.3	15.1	12.3	9.8	7.7	6.0	4.5					
RUC1000MTY	H1002CC	10	38.6	R449A	29.4	24.7	20.6	16.9	13.6	10.8	8.4	1415	920	940	224	
				R134A/R513A	21.4	17.6	12.2	11.3	8.8	6.7	5.0					
RUC1500MTY	H1501CC	15	48.8	R449A	40.0	33.9	28.4	23.4	19.1	15.3	12.0	2110	1105	840	253	
				R134A/R513A	28.3	23.2	18.7	14.8	11.5	8.7	6.4					
RUC2000MTY	H2001CC	20	56.8	R449A	45.3	38.4	32.3	26.8	21.9	17.6	13.8	2110	1105	940	311	
				R134A/R513A	31.5	25.9	20.9	16.6	12.8	9.7	7.2					
RUC2500MTY	H2500CC	25	75.8	R449A	57.5	48.7	40.8	33.7	27.4	21.8	16.9	1660	850	1480	388	
				R134A/R513A	42.6	35.2	28.6	22.7	17.7	13.5	9.9					
RUC3000MTY	H3000CC	30	85	R449A	65.6	55.4	46.3	38.2	30.9	24.5	19.0	1660	850	1480	357	
				R134A/R513A	48.5	40.0	32.5	25.8	20.1	15.3	11.3					
RCU3500MTY	H3500CC	35	113.7	R449A	82.4	69.9	58.7	48.7	39.7	31.9	25.0	1660	1000	1890	473	
				R134A/R513A	63.6	52.6	42.7	34.0	26.5	20.2	14.9					
RUC4000MTY	H4000CC	40	127.5	R449A	88.7	75.6	63.8	53.1	43.6	35.1	27.7	1660	1000	1890	476	
				R134A/R513A	71.8	59.4	48.3	38.6	30.2	23.0	17.1					

Low Temperature

Stock Code	Model	HP	Disp m3/hr	Refrigerant	kW Capacities @ 30°C Ambient							Dimensions (mm)			Weight KG	
					-10	-15	-20	-25	-30	-35	-40	W	D	H		
RUC0350LTY	H350SB	3.5	17.5	R449A		6.2	5.0	4.0	3.1	2.4	1.7	1215	920	635	118	
RUC0392LTY	H392CS	3.8	23.3	R449A		6.2	5.0	3.9	2.9	2.1	2.1	1215	920	635	130	
RUC0503LTY	H503CS	5	26.4	R449A	12.4	10.1	8.2	6.5	5.0	3.8	2.8	1215	920	635	155	
RUC0750LTY	H751CS	7.5	38.2	R449A	15.5	12.7	10.3	8.1	6.2	4.6	3.3	1415	920	840	192	
RUC1000LTY	H1001CS	10	48.8	R449A	21.5	17.7	14.3	11.4	8.8	6.7	4.9	1415	920	940	243	
RUC1500LTY	H1501CS	15	56.9	R449A	23.8	19.8	16.1	12.9	10.0	7.5	5.5	1415	920	940	302	
RUC2000LTY	H2000CS	20	75.8	R449A	31.9	26.2	21.2	16.7	12.8	9.5	6.7	2110	1105	840	307	
RUC2500LTY	H2500CS	25	85	R449A	36.8	30.1	24.1	18.8	14.3	10.6	7.5	1660	1105	1480	355	
RUC3000LTY	H3000CS	30	113.7	R449A	48.9	39.9	32.0	25.1	19.3	14.3	10.2	1660	1105	1890	462	
RUC3500LTY	H3500CS	35	127	R449A	52.7	43.1	34.6	27.1	20.8	15.5	11.1	1660	1105	1890	460	

- Dorin Condensing Units come complete with:-
- HP/LP switch
 - Liquid receiver
 - Suction accumulator
 - Castel relief valve
 - Castel vibration eliminator
 - Castel drier filter
 - Castel sight glass
 - Castel oil separator



Refspecs Frigo-Packs Tecumseh

Medium Temperature Tecumseh 220/240 Volt 50 Hz Single Phase

Stock Code	Compressor	HP	Disp CC	Refrigerant	kW Capacities @ 30°C Ambient						
					5	0	-5	-10	-15	-20	-25
RFPMM100	CAJ9510Z	1	18.3	R449A	2.4	2.0	1.6	1.3	1.1	0.9	
RFPMM125	CAJ4517Z	1 1/4	25.9	R449A	3.4	2.9	2.3	1.9	1.5	1.2	
RFPMM150	CAJ4519Z	1 1/2	34.4	R449A	4.4	3.7	3.1	2.5	2.0	1.5	
RFPMM200	FH4524Z	2	43.5	R449A	5.5	4.6	3.7	2.9	2.3	1.6	
RFPMM250	FH4531Z	2 1/2	56.6	R449A	7.0	5.9	4.8	3.8	2.9	2	

Medium Temperature, Single Phase Install Specification

Stock Code	Compressor	Body No.	Fans	Dimensions (mm)				Pipe Size		FLA
				W	D	H	(kg)	Liquid	Suction	
RFPMM100	CAJ9510Z	HUC 3501Z02 MS	1 x Ø350	805	555	650	65	9.53 (3/8")	15.88 (5/8")	8.56
RFPMM125	CAJ4517Z	HUC 4001Z02 MS	1 x Ø400	1035	555	750	85	9.53 (3/8")	15.88 (5/8")	11.22
RFPMM150	CAJ4519Z	HUC 4001Z02 MS	1 x Ø400	1035	555	750	85	9.53 (3/8")	15.88 (5/8")	16.02
RFPMM200	FH4524Z	HUC 4001Z03 MS	1 x Ø400	1035	555	750	90	9.53 (3/8")	15.88 (5/8")	18.72
RFPMM250	FH4531Z	HUC 4501Z02 MS	1 x Ø450	1235	605	900	108	9.53 (3/8")	22.23 (7/8")	27.2

Medium Temperature Tecumseh 380/415 Volt 50 Hz Three Phase

Stock Code	Compressor	HP	Disp CC	Refrigerant	kW Capacities @ 32°C Ambient						
					5	0	-5	-10	-15	-20	-25
RFPMT300	TFH4540Z	3	74.2	R449A	8.8	7.4	6.1	4.9	3.9	2.9	
RFPMT400	TAG4546Z	4	90.2	R449A	10.5	8.6	6.9	5.4	4.1	3	
RFPMT500	TAG4561Z	5	112.5	R449A	13.4	11.1	9.1	7.2	5.6	4.1	
RFPMT625	TAG4573Z	6 1/4	134.8	R449A	16	13.3	11	8.8	6.9	5.2	

Medium Temperature, Three Phase, Install Specification

Stock Code	Compressor	Body No.	Fans	Dimensions (mm)				Pipe Size		FLA
				W	D	H	(kg)	Liquid	Suction	
RFPMT300	TFH4540Z	HUC 4501Z03 MT	1 x Ø450	1235	605	900	108	9.53 (3/8")	22.23 (7/8")	10.4
RFPMT400	TAG4546Z	HUC 4502Z02 MT	2 x Ø450	1355	605	1200	126	12.7 (1/2")	22.23 (7/8")	13.8
RFPMT500	TAG4561Z	HUC 4502Z03 MT	2 x Ø450	1355	605	1200	141	12.7 (1/2")	22.23 (7/8")	16.4
RFPMT625	TAG4573Z	HUC 4502Z04 MT	2 x Ø450	1355	605	1200	155	12.7 (1/2")	22.23 (7/8")	20.4

Note: - All Medium Temperature Tecumseh Units come complete with Accumulator, HPLP Control, Drier & Sight Glass Fitted, Fully Wired, Designed for Use with R404a, R407F, R449a

All Low Temperature Units come complete with Oil Separator, Accumulator, HPLP Control, Drier & Sigh Glass, Designed for Use with R404a, R449a.

All Units with 2 x Fans Have HP Condenser Fan Control Fitted.



Refspecs Frigo-Packs Tecumseh

Low Temperature Tecumseh 220/240 Volt 50 Hz Single Phase

Stock Code	Compressor	HP	Disp CC	Refrigerant	kW Capacities @ 30°C Ambient							
					-5	-10	-15	-20	-25	-30	-35	
RFPML200	TFH2480Z	2	22.8	R449A	3.6	2.9	2.3	1.8	1.3	0.95		

Low Temperature, Single Phase, Install Specification

Stock Code	Compressor	Body No.	Fans	Dimensions (mm)				Pipe Size		FLA
				W	D	H	(kg)	Liquid	Suction	
RFPML200	TFH2480Z	HUC 4001Z02 LS	1 x Ø400	1035	555	750	88	9.53 (3/8")	15.88 (5/8")	5.42

Low Temperature Tecumseh 380/415 Volt 50 Hz Three Phase

Stock Code	Compressor	HP	Disp CC	Refrigerant	kW Capacities @ 30°C Ambient							
					-5	-10	-15	-20	-25	-30	-35	
RFPML300	TFH2511Z	3	74.3	R449A	4.5	3.7	2.9	2.2	1.7	1.2		
RFPML400	TAG2516Z	4	112.5	R449A	7.2	5.8	4.5	3.4	2.4			
RFPML500	TAG2522Z	5	134.8	R449A	8.3	6.8	5.4	4.2	3.1	2.2		

Low Temperature, Three Phase, Install Specification

Stock Code	Compressor	Body No.	Fans	Dimensions (mm)				Pipe Size		FLA
				W	D	H	(kg)	Liquid	Suction	
RFPML300	TFH2511Z	HUC 4001Z03 LT	1 x Ø400	1035	555	750	90	9.53 (3/8")	22.23 (7/8")	5.62
RFPML400	TAG2516Z	HUC 4501Z03 LT	1 x Ø450	1235	605	900	116	12.7 (1/2")	22.23 (7/8")	11.01
RFPML500	TAG2522Z	HUC 4502Z03 LT	2 x Ø450	1355	605	1200	143	12.7 (1/2")	22.23 (7/8")	14.9

Note: - All Medium Temperature Tecumseh Units come complete with Accumulator, HPLP Control, Drier & Sight Glass Fitted, Fully Wired, Designed for Use with R404a, R407F, R449a

All Low Temperature Units come complete with Oil Separator, Accumulator, HPLP Control, Drier & Sight Glass, Designed for Use with R404a, R449a.

All Units with 2 x Fans Have HP Condenser Fan Control Fitted.

All Tecumseh 3 Phase Units include Contactors & Overloads



Refspecs Frigo-Packs Copeland Scroll

Medium & Low Temperature Copeland 380/415 Volt 50 Hz Three Phase

Stock Code	Compressor	HP	Disp CC	Refrigerant	kW Capacities @ 30°C Ambient						
					5	0	-5	-10	-15	-20	-25
RFPM250	ZB19KQE-TFD	2.5	6.8	R449A	7.1	5.9	4.9	3.8	3	2.58	1.8
				R134A/R513A	4.7	3.8	3.1	2.4	1.8	1.5	
RFPM300	ZB21KQE-TFD	3	8.6	R449A	9.2	7.7	6.3	4.8	3.8	3.0	2.3
				R134A/R513A	5.9	4.8	3.9	3.0	2.4	1.9	
RFPM350	ZB26KQE-TFD	3.5	9.9	R449A	10.8	8.9	7.3	5.5	4.3	3.3	2.5
				R134A/R513A	6.8	5.6	4.5	3.5	2.7	2.2	
RFPM400	ZB29KQE-TFD	4	11.4	R449A	11.9	9.9	8.2	6.4	5.1	4.1	3.2
				R134A/R513A	7.4	6.1	4.9	4.0	3.1	2.5	
RFPM500	ZB38KQE-TFD	5	14.5	R449A	15.8	13.1	10.9	8.3	6.6	5	3.5
				R134A/R513A	10.1	8.2	6.6	5.2	4.0	3.2	
RFPM600	ZB45KQE-TFD	6	17.1	R449A	18.5	15.4	12.7	9.6	7.7	5.8	4.1
				R134A/R513A	12.1	9.9	8.1	6.1	4.7	4.1	
RFPM700	ZB48KQE-TFD	7	18.8	R449A	21.3	17.7	14.6	12.05	8.8	6.7	4.7
				R134A/R513A	13.3	11.1	9.1	6.8	5.3	4.7	
RFPM800	ZB58KQE-TFD	8	22.1	R449A	23.8	19.8	16.5	12.55	9.58	6.9	
				R134A/R513A	15.1	12.4	10	7.7	6.1	4.8	
RFPM900	ZB66KQE-TFD	9	25.7	R449A	27.3	22.8	18.9	15.4	11.4	9.4	
				R134A/R513A	17.4	14.4	11.7	8.8	6.8	5.2	
RFPM1000	ZB76KQE-TFD	10	28.8	R449A	32.2	26.9	22.3	17.2	13.5	10.1	
				R134A/R513A	20	16.5	13.4	10.7	8.5	6.6	
RFPM1300	ZB95KQE-TFD	13	36.4	R449A	39.3	32.9	27.3	23.8	17.1	13.5	
				R134A/R513A	25.4	21	17.7	12.6	9.7	7.2	
RFPM1500	ZB114KQE-TFD	15	43.3	R449A	47.8	40	32.9	26.5	20.6	15.6	
				R134A/R513A	30.6	25.2	20.4	14.9	11.3	9.6	

Install Specification

Stock Code	Compressor	Body No.	Fans	Dimensions (mm)				Pipe Size		FLA
				W	D	H	Weight (kg)	Liquid	Suction	
RFPM250	ZB19KQE-TFD	HUC 4501Z02 MT	1 x Ø450	1235	605	900	88	9.53 (3/8")	19.05 (3/4")	7.7
RFPM300	ZB21KQE-TFD	HUC 4501Z03 MT	1 x Ø450	1235	605	900	91	9.53 (3/8")	19.05 (3/4")	8.35
RFPM350	ZB26KQE-TFD	HUC 4501Z03 MT	1 x Ø450	1235	605	900	93	12.7 (1/2")	19.05 (3/4")	10.05
RFPM400	ZB29KQE-TFD	HUC 4502Z02 MT	2 x Ø450	1355	605	1200	126	12.7 (1/2")	22.23 (7/8")	12.4
RFPM500	ZB38KQE-TFD	HUC 4502Z03 MT	2 x Ø450	1355	605	1200	141	12.7 (1/2")	22.23 (7/8")	15.2
RFPM600	ZB45KQE-TFD	HUC 4502Z04 MT	2 x Ø450	1355	605	1200	148	12.7 (1/2")	22.23 (7/8")	15.5
RFPM700	ZB48KQE-TFD	HUC 4502Z04 MT	2 x Ø450	1355	605	1200	155	12.7 (1/2")	22.23 (7/8")	16.4
RFPM800	ZB58KQE-TFD	HUC 5002Z04 MT	2 x Ø500	1455	605	1300	162	15.88 (5/8")	28.6 (1"1/8)	18.5
RFPM900	ZB66KQE-TFD	HUC 5002Z05 MT	2 x Ø500	1455	605	1300	163	15.88 (5/8")	28.6 (1"1/8)	20.1
RFPM1000	ZB76KQE-TFD	HUC 5002Z05 MT	2 x Ø500	1455	605	1300	165	15.88 (5/8")	28.6 (1"1/8)	24.74
RFPM1300	ZB95KQE-TFD	HUC PLUS 5002Z05 MT	2 x Ø500	1720	973	1560	390	22.23 (7/8")	34.93 (1"3/8)	33.6
RFPM1500	ZB114KQE-TFD	HUC PLUS 5004Z03 MT	4 x Ø500	2200	973	1560	459	22.23 (7/8")	34.93 (1"3/8)	38.7

All Medium Temperature Scroll Units come complete with HPLP Control, Drier & Sight Glass Fitted, Fully Wired, Designed for Use with R449a, R513a, R134a, R407F

All 3 Phase Units include Contactors & Overloads



Dorin HUC Plus Pack Units

Medium Temperature

Performance Data is Based on European Standard EN 12900

Stock Code	Compressor	HP	Disp m3/hr	Refrigerant	kW Capacities @ 32°C Ambient							
					5	0	-5	-10	-15	-20	-25	
RFPDM0500	H505CC	5	22.8	R449A	18.6	15.7	13.1	10.8	8.8	7.0	5.4	
				R134A/R513A	13.4	11.0	8.9	7.0	5.5	4.2	3.1	
RFPDM0750	H751CC	7.5	33.5	R449A	25.8	21.7	18.0	14.7	11.8	9.3	7.2	
				R134A/R513A	18.3	15.1	12.3	9.8	7.7	6.0	4.5	
RFPDM1000	H1002CC	10	38.6	R449A	29.4	24.7	20.6	16.9	13.6	10.8	8.4	
				R134A/R513A	21.4	17.6	12.2	11.3	8.8	6.7	5.0	
RFPDM1500	H1501CC	15	48.8	R449A	40.0	33.9	28.4	23.4	19.1	15.3	12.0	
				R134A/R513A	28.3	23.2	18.7	14.8	11.5	8.7	6.4	
RFPDM2000	H2001CC	20	56.8	R449A	45.3	38.4	32.3	26.8	21.9	17.6	13.8	
				R134A/R513A	31.5	25.9	20.9	16.6	12.8	9.7	7.2	
RFPDM2500	H2500CC	25	75.8	R449A	57.5	48.7	40.8	33.7	27.4	21.8	16.9	
				R134A/R513A	42.6	35.2	28.6	22.7	17.7	13.5	9.9	
RFPDM3000	H3000CC	30	85	R449A	65.6	55.4	46.3	38.2	30.9	24.5	19	
				R134A/R513A	48.5	40	32.5	25.8	20.1	15.3	11.3	
RFPDM3500	H3500CC	35	113.7	R449A	82.4	69.9	58.7	48.7	39.7	31.9	25	
				R134A/R513A	63.6	52.6	42.7	34	26.5	20.2	14.9	
RFPDM4000	H4000CC	40	127.5	R449A	88.7	75.6	63.8	53.1	43.6	35.1	27.7	
				R134A/R513A	71.8	59.4	48.3	38.6	30.2	23	17.1	
RFPDM5000	H5000CC	50	153.5	R449A	120.9	100.8	83.3	70	54.8	43.5	32.2	
				R134A/R513A	82.4	66.1	52.0	40.1	30.1	21.9	15.3	
RFPDM6000	H6000CC	60	184.2	R449A	145.5	120.9	99.6	81.2	65.3	51.7	36	
				R134A/R513A	104.3	83.9	66.4	51.6	39.2	29.0	20.8	

Medium Temperature Install Specification

Stock Code	Body No.	Compressor	Dimensions (mm)			Pipe Size		FLA
			W	D	H	Liquid	Suction	
RFPDM0500	HUC PLUS 4502Z03 MT	H505CC	1720	973	1560	15.88 (5/8")	28.6 (1"1/8)	16.9
RFPDM0750	HUC PLUS 5002Z05 MT	H751CC	1720	973	1560	15.88 (5/8")	28.6 (1"1/8)	22.1
RFPDM1000	HUC PLUS 4504Z03 MT	H1002CC	2200	973	1560	22.23 (7/8")	34.93 (1"3/8)	28.8
RFPDM1500	HUC PLUS 5004Z04 MT	H1501CC	2200	973	1560	22.23 (7/8")	34.93 (1"3/8)	33.2
RFPDM2000	HUC PLUS 6302Z04 MT (Top)	H2001CC	2205	1400	1995	22.23 (7/8")	41.28 (1"5/8")	42.4
RFPDM2500	HUC PLUS 6303Z03 MT (Top)	H2500CC	3105	1400	1995	22.23 (7/8")	53.98 (2"1/8")	54.6
RFPDM3000	HUC PLUS 6303Z04 MT (Top)	H3000CC	3105	1400	1995	22.23 (7/8")	53.98 (2"1/8")	62.6
RFPDM3500	HUC PLUS 8002Z03 MT (Top)	H3500CC	2805	1400	2495	22.23 (7/8")	53.98 (2"1/8")	67
RFPDM4000	HUC PLUS 8002Z05 MT (Top)	H4000CC	2805	1400	2495	22.23 (7/8")	53.98 (2"1/8")	82
RFPDM5000	HUC PLUS 8003Z03 MT (Top)	H5000CC	4005	1400	2495	34.93 (1"3/8)	53.98 (2"1/8")	103.5
RFPDM6000	HUC PLUS 8003Z05 MT (Top)	H6000CC	4005	1400	2495	34.93 (1"3/8)	79.38 (3"1/8)	130.5

Stock Code	Compressor Model	HP	Disp m3/hr	Refrigerant	kW Capacities @ 32°C Ambient							
					-10	-15	-20	-25	-30	-35	-40	
RFPDL500	H503CS	5	26.4	R449A	12.4	10.1	8.2	6.5	5.0	3.8	2.8	
RFPDL750	H751CS	7.5	38.2	R449A	15.5	12.7	10.3	8.1	6.2	4.6	3.3	
RFPDL1000	H1001CS	10	48.8	R449A	21.5	17.7	14.3	11.4	8.8	6.7	4.9	
RFPDL1500	H1501CS	15	56.9	R449A	23.8	19.8	16.1	12.9	10.0	7.5	5.5	
RFPDL2000	H2000CS	20	75.8	R449A	31.9	26.2	21.2	16.7	12.8	9.5	6.7	
RFPDL2500	H2500CS	25	85	R449A	36.8	30.1	24.1	18.8	14.3	10.6	7.5	
RFPDL3000	H3000CS	30	113.7	R449A	48.9	39.9	32.0	25.1	19.3	14.3	10.2	
RFPDL3500	H3500CS	35	127	R449A	52.7	43.1	34.6	27.1	20.8	15.5	11.1	
RFPDL4500	H4500CS	45	153.5	R449A	61.9	50.6	40.8	32.2	24.7	19.0	12.5	

Low temperature Install Specification

Stock Code	Body No.	Compressor	Dimensions (mm)			Pipe Size		FLA
W	D	H	Liquid	Suction				

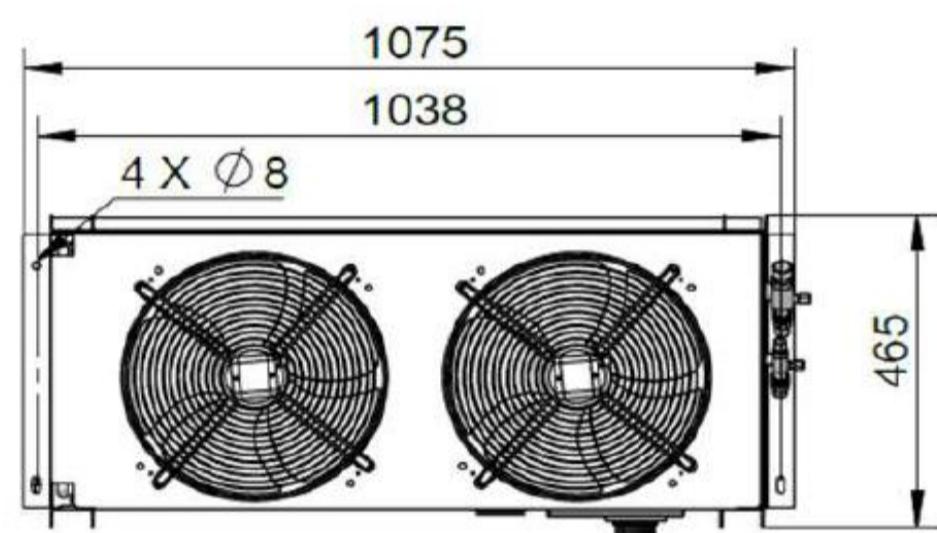
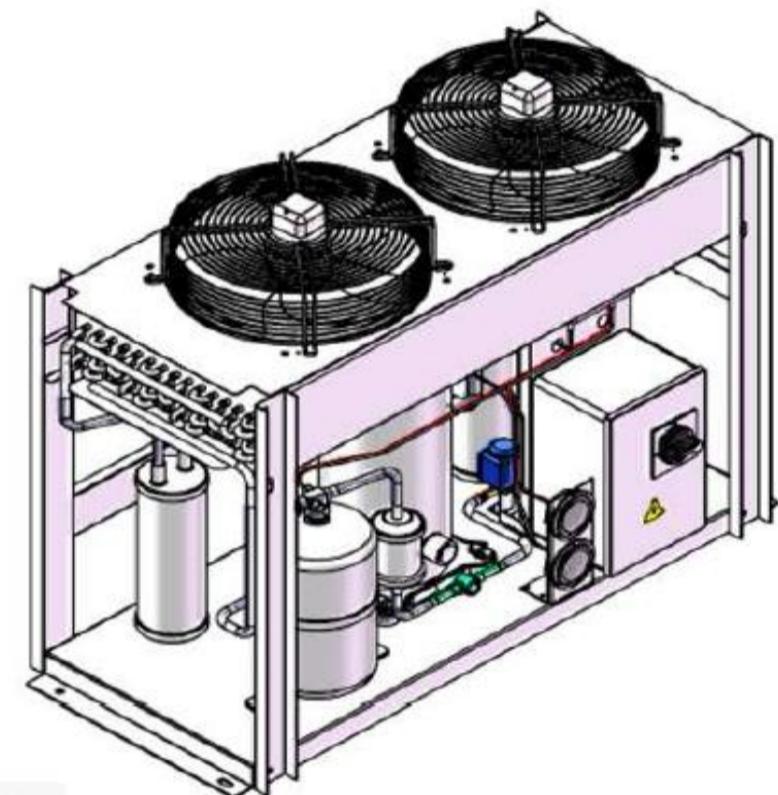
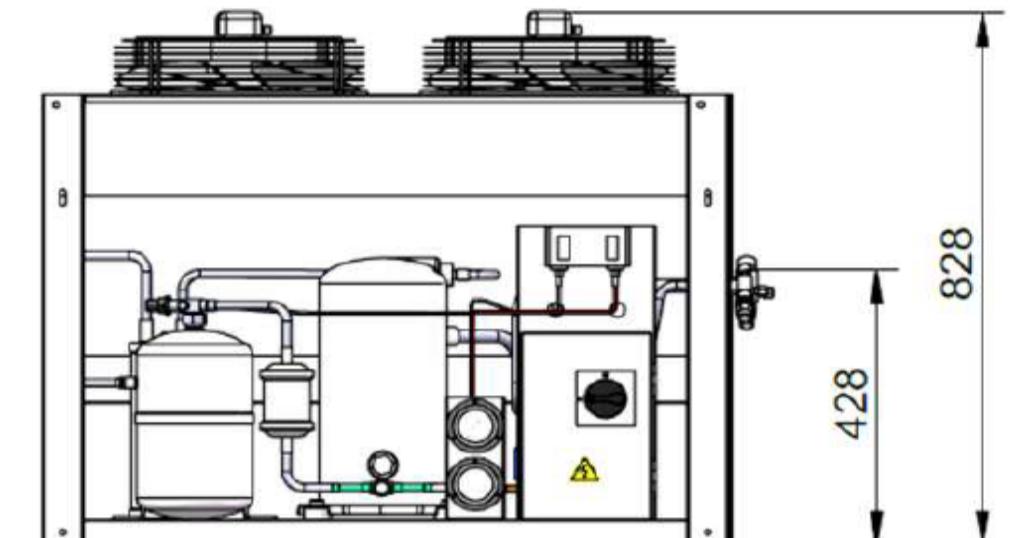
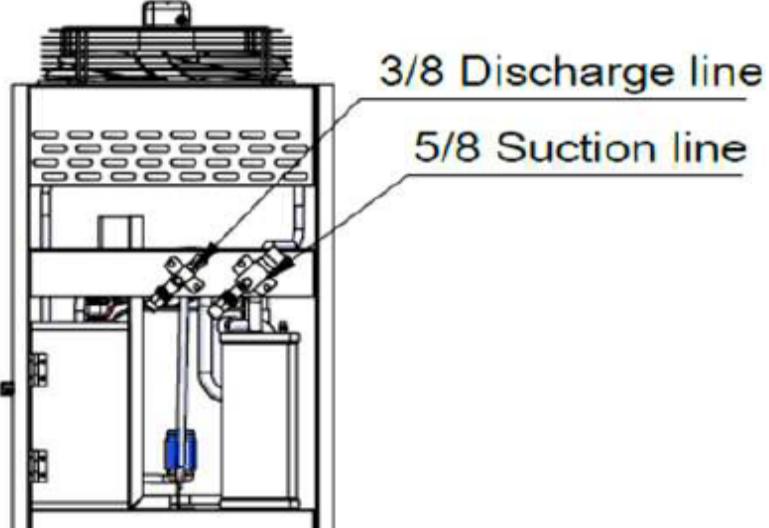
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Refer-Container Unit

Stock Code: RCCU300

ZB21KQE-PFJ

220-240V / 50Hz-1~



Net weight: 115 kg
Sound Power: 80 dBA @10m

Airflow: 4800 Max m³/hr
Current: 17.59 Amps

Compressor Data Sheet: ZB21KQE-PFJ-559

Fan Motor RPM 1440

Shaft Power 260

Fan Blade Dia 2 x Ø35
Protection Overload

IP44

Condenser: CUNZB21ZHR

Reciever Capacity: Max
Service Pressure: 5.6 Litre
32 Bar

Suction Line (1): Rotalock Valve, 15.88 (5/8") Tube OD Brazed Connection Liquid Line
(2): Rotalock Valve 9.53 (3/8") Tube OD Brazed Connection

Compressor Cooling Capacity (W), 6K Superheat 2K Sub Cooling - Recommended Evap ELD050: HEA3502 28 4D

Refrigerant	Condensing °C	Evap °C								
		-25	-20	-15	-10	-5	0	5	7	10
R404a	25	3650	4440	5500	6740	9850				
	30	3310	4140	5140	6300	7670	9240	11050	11850	13100
	35	3040	3830	4760	5850	7130	8610	10300	11050	12250
	40	2760	3500	4360	5370	6560	7950	9560	10250	11400
R449A	25	3070	3920	4930	6120	7510	9120	11000	11800	
	30	2880	3710	4680	5820	7150	8700	10500	11250	12550
	35	2690	3480	4410	5490	6770	8250	9960	10700	11900
	40	2490	3250	4120	5160	6360	7770	9400	10100	11300
R407F	25	3130	3980	4960	6100	7400	8910	10650		
	30	2890	3740	4710	5810	7090	8560	10250	10950	12150
	35		3450	4390	5470	6710	8130	9760	10450	11600
	40			4030	5070	6260	7630	9200	9890	11000

Package comes complete with:

- HPLP Switch
- Drier
- Sight Glass
- FSC
- Accumulator and Reciever Fully Wired

CO2 Packs

Stock Code	Model	Capacity (kW)			Width	Depth	Height	KG						
		Nom	Min	Max										
			Capacity											
Medium Temperature Green & Cool 220/240 Volt 50 Hz Single Phase														
RFPMT30	MT30	2.5	0.8	3.5	1200	380	1030	125						
RFPMT45-PK	MT45	3.3	1.2	4.8	1200	380	1030	130						
RFPMT67-PK	MT67	5.5	1.9	7.8	1200	380	1030	160						
RFPMT100-PK	MT100	7.4	2.6	10.6	1200	380	1430	185						
Low Temperature Green & Cool 220/240 Volt 50 Hz Single Phase														
RFPLT75-PK	LT75	2.7	2.4	3.8	1194	681	1028	185						
RFPLT112-PK	LT112	4.4	2.8	6.3										
RFPLT167-PK	LT167	6	2.8	8.5	1200	381	1638	210						


QuietCOOL™

Low noise, environmentally responsible condensing unit

The sustainable choice for your installations. CO2 is not affected by limitations on the use of traditional HFC refrigerants, nor by potential changes to the F-Gas Regulation

A comprehensive range, fully optimized for medium and low temperature applications

4 sizes for medium temperature applications from 1 to 10 kW

3 sizes for low temperature applications from 0.5 to 8.5 kW

Equipped with a low noise rotary compressor, operating at variable speed in order to closely match load variations and limit on/off cycling

Designed for PED category 1. Intended for simple, fast, cost-effective installation, with accessible components for ease of maintenance

Unit designed to supply several evaporators, with pipe connections and receiver volumes dimensioned accordingly.

Regulated by a digital controller of European design, incorporating specialised control algorithms for low annual energy bills.

Available with a number of options to suit a wide range of applications and operating conditions.



Tecumseh Hermetic Compressors

R134A / R513A Medium Temperature



Stock Code	Model	Nominal HP	220/240 Volt 50 Hz Single Phase			Disp cc	Height (mm)
			-5°C	0°C	5°C		
CH0021	CAE4440Y	1/3	753	959	1197	12	210
CH0001	CAJ4461Y	1/2	1148	1463	1829	18.3	268
CH0002	CAJ4492Y	3/4	1631	2121	2673	25.9	281
CH0013	CAJ4511Y	1	2220	2834	3534	32.7	292
CH0022	FH4518Y	1 1/2	3183	4199	5328	53.2	348
CH0023	FH4525Y	2	3800	4310	5180	63	415

R449a / R404A Medium Temperature



220/240 Volt 50 Hz Single Phase							
CH0024	AE4460Z-FZ1C	1/2	1014	1262	1549	11.3	210
CH0028	CAJ9480Z	5/8	1444	1798	2205	15.2	292
CH0014	CAJ9510Z	1	1761	2184	2673	18.3	292
CH0003	CAJ9513Z	1 1/8	2153	2729	3393	24.2	292
CH0011	CAJ4517Z	1 1/4	2459	3070	3783	25.9	292
CH0004	CAJ4519Z	1 1/2	3274	4054	4961	34.4	292
CH0015	FH4524Z	2	3780	4802	5975	43.5	372
CH0016	FH4531Z	2 1/2	5087	6387	7839	56.6	388
380/440 Volt 50 Hz Three Phase							
CH0008	TFH4540Z	3	6433	7981	9773	74.2	388
CH0017	TAG4546Z	3 3/4	8125	10267	12746	90.2	396
CH0009	TAG4561Z	5	8880	11442	14473	112.5	409
CH0018	TAG4573Z	6	11300	14314	17835	134.8	421

R449a / R404A Low Temperature



220/240 Volt 50 Hz Single Phase							
			-30°C	-25°C	-20°C		
CH0012	CAJ2446Z	1	999	1336	1718	26.1	292
CH0005	CAJ2464Z	1 1/2	1372	1883	2452	35.4	292
CH0006	FH2480Z	2	1819	2464	3204	53.2	388
CH0007	FH2511Z	3	2476	3341	4348	74.3	388
380/440 Volt 50 Hz Three Phase							
CH0029	TFH2480Z	2	1771	2458	3280	53.2	372
CH0010	TFH2511Z	3	2476	3341	4348	74.3	372
CH0019	TAG2516Z	4	3816	5133	6766	112.5	396
Ch0020	TAG2522Z	5	4921	6473	8430	134.8	421

All Ratings are at a Condensing Temperature of 40°C

Dorin Compressors

R449A / R513A / R134A Medium / Low Temperature

Performance Data is Based on European Standard EN 12900

Stock Code	Model	HP	Disp m3/hr	Refrigerant	W Capacities @ 45°C Condensing						Max Amps	
					5	0	-5	-25	-35	-40		
CDH300CC	H300CC	3	14.7	R449A	12570	10260	8270	2950	1520	1020	9.4	
				R513A	8500	6940	5580	1920				
				R134A	8140	6540	5170	1620				
CDH350CC	H350CC	3.5	15.9	R449A	13590	11130	8990	3310	1760	1210	9.4	
				R513A	9200	7500	6020	2070				
				R134A	8820	7080	5580	1730				
CDH392CS	H392CS	3.9	23.3	R449A				4840	2850	1770	11.3	
				R513A	13120	10690	8580	2850				
				R134A	12640	10130	7980	2390				
CDH503CC	H503CC	5	22.8	R449A	20070	16390	13200	4680	2370	1550	12.9	
				R134A	13080	10460	8210	2450				
				R449A			15630	5790	3130	2190		
CDH503CS	H503CS	5	26.4	R134A	14790	11940	9490	3010			12.9	
				R449A			15400	5530	2870	1940		
				R513A	15780	12860	10340	3650				
CDH551CS	H551CS	5.5	27.3	R134A	15210	12190	9610	3060			14.5	
				R449A	27620	22400	17910	6180	3150	2110		
				R513A	18360	15090	12240	4310				
CDH751CC	H751CC	7.5	31.8	R134A	17730	14320	11370	3640			19.5	
				R449A			21170	7600	3960	2680		
				R513A	22000	17920	14400	5020				
CDH1002CC	H1002CC	10	38.6	R134A	21230	17020	13410	4200			23	
				R449A	32970	26740	21370	7370	3760	2520		
				R513A	22180	17990	14380	4880				
CDH1001CS	H1001CS	10	48.8	R134A	21290	17010	13350	4090			24	
				R449A			29260	10640	5640	3870		
				R513A	28760	23520	18980	6480				
CDH1501CC	H1501CC	15	48.8	R134A	27730	22310	17660	5440			34	
				R449A	43390	35530	28710	10480	5490	3700		
				R513A	28780	23400	18720	6050				
CDH1501CS	H1501CS	15	56.8	R134A	27600	22070	17330	5100			28	
				R449A			33820	12400	6570	4490		
				R513A	32770	26870	21740	7640				
CDH2001CC	H2001CC	20	56.8	R134A	31590	25480	20220	6420			38	
				R449A	51290	42000	33950	12410	6530	4430		
				R513A	32630	26460	21120	6890				
CDH2000CS	H2000CS	20	75.8	R134A	31280	24970	19570	5800			38	
				R449A			43570	15520	7950	5270		
				R513A	45680	37350	30120	10280				
CDH2500CC	H2500CC	25	75.8	R134A	44020	35390	27990	8640			48	
				R449A	65800	53710	43210	15110	7450	4730		
				R513A	45450	36990	29620	9450				
CDH2500CS	H2500CS	25	85.1	R134A	43640	34920	27440	7970			45	
				R449A			48950	17220	8760	5810		
				R513A	51770	42370	34230	11950				
CDH3000CC	H3000CC	30		R134A	49740	40150	31880	10000			56	
				R449A	74040	60320	48430	16760	8250	5270		
				R513A	51330	41710	33350	10760				
CDH3000CS	H3000CS	30	113.7	R134A	49140	39360	30940	9060			60	
				R449A			63290	22610	11630	7750		
				R513A	66930	54810	44300	15560				
CDH3500CC	H3500CC	35	113.7	R134A	64380	51920	41200	13070			60	
				R449A	94980	77650	62620	22530	11650	7790		

Dorin Compressors

CO2 Transcritical

Stock Code	Model	HP	Refrigerant	
CD750B	Dorin CD300 Range - CD750B - CO2 Compressor with crankcase heater thermistor & oil pump	7.5	CO2	
CD750M	Dorin CD300 Range - CD750M - CO2 Compressor with crankcase heater thermistor	7.5	CO2	
CD800B	Dorin CD300 Range - CD800B - CO2 Compressor with crankcase heater thermistor & oil pump	8	CO2	
CD1000B	Dorin CD300 Range - CD1000B - CO2 Compressor with crankcase heater thermistor & oil pump	10	CO2	
CD1200B	Dorin CD400 Range - CD1200B - CO2 Compressor with crankcase heater thermistor & oil pump	12	CO2	
CD1200H	Dorin CD300 Range - CD1200H - CO2 Compressor with crankcase heater thermistor & oil pump	12	CO2	
CD1300M	Dorin CD300 Range - CD1300M - CO2 Compressor with crankcase heater thermistor & oil pump	13	CO2	
CD1500B	Dorin CD400 Range - CD1500B - CO2 Compressor with crankcase heater thermistor & oil pump	15	CO2	
CD2001B	Dorin CD400 Range - CD2001B - CO2 Compressor with crankcase heater thermistor & oil Pump	20	CO2	
CD2500H	Dorin CD400 Range - CD2500H - CO2 Compressor with crankcase heater thermistor & oil pump	25	CO2	
CD3501M	Dorin CD400 Range - CD3500M - CO2 Compressor with crankcase heater thermistor & oil pump	35	CO2	
CD3501H	Dorin CD400 Range - CD3501H - CO2 Compressor with crankcase heater thermistor & oil pump	35	CO2	
CD4501H	Dorin CD400 Range - CD4501H - CO2 Compressor with crankcase heater thermistor & oil pump	45	CO2	

H - High evaporating temperature

M - Medium evaporating temperature

B - Low evaporating temperature

Dorin produce a wide range of CO2 compressors please contact your branch for more information



Refspecs RCU Spares

Condensers to Suit Refspecs RCU Units			
	Stock Code	Vendors Code	Description
	RCC001		Refspecs Inner Grooved Tube Condenser suits 1HP MT(R134a & R404a) & 1.1/2HP LT
	RCC002		Refspecs Inner Grooved Tube Condenser suits 1.1/4 - 2HP MT(R404a) 1.1/2 - 2HP MT(R134a) 2 - 3HP LT
	RCC003		Refspecs Inner Grooved Tube Condenser suits 4HP MT
	RCC004		Refspecs Inner Grooved Tube Condenser suits 6.1/4HP MT
	RCC005		Refspecs Inner Grooved Tube Condenser suits 5/8 3/4HP MT(R134a) 1/2 & 5/8HP MT(R404a) 1HP LT
	RCC006		Refspecs Inner Grooved Tube Condenser suits 1/4HP MT(R134a) 1/3HP MT(R404a)
	RCC007		Refspecs Inner Grooved Tube Condenser suits 3HP MT
	RCC008		Refspecs Inner Grooved Tube Condenser suits 1 1/8 HP MT(R404a)
Fan Guards to Suit Refspecs RCU Units			
	CHFG0100		Plastic Fan Guard 1 HP
	CHFG0125		Plastic Fan Guard 1.25 HP
	CHFG0150		Plastic Fan Guard 1.5 HP
Base Plates to Suit Refspecs RCU Units			
	RCB001		Refspecs Base Plate suits 1/2 - 1.1/2HP MT(R134a & R404a) 1 - 1.1/2HP LT
	RCB002		Refspecs Base Plate suits 2HP MT(R134a & R404a) 2 - 3HP LT
	RCB003		Refspecs Base Plate suits 2.1/2 - 4HP MT 4 - 5HP LT
	RCB004		Refspecs Base Plate suits 5 and 6.1/4HP MT

Tecumseh Hermetic Electrical Components

Stock Code	Description	Model
AEZ4425Y		
CHS665450	Relay	RP3638
CHS682318	Overload	T89009-23
CHS680233	Start Capacitor	64-77 uf / 250V
CAJ4461Y		
CHS565443	Relay	RVA403D
CHS570473	Overload	MST24ALK
CHS680228	Start Capacitor	64 uf / 330V
CAJ4492Y		
CHS565400	Relay	RVA4G3D
CHS571515	Overload	MST18AIN
CHS680228	Start Capacitor	64 uf / 330V
CAJ4511Y		
CHS665103	Relay	RVA6M3D
CHS570591	Overload	T0419
CHS640151	Start Capacitor	88 uf / 330V
CHS685302	Run Capacitor	15 uf / 400V
CAJ2446Z		
CHS565443	Relay	RVA4030
CHS571515	Overload	MST18AIN
CHS640162	Start Capacitor	88 uf / 330V
CHS685302	Run Capacitor	15 uf / 400V
CAJ2464Z		
CHS565103	Relay	RVA6M3D
CHS571519	Overload	MST16AFZ
CHS640151	Start Capacitor	88 uf / 330V
CHS685304	Run Capacitor	20 uf / 400V
FH2480Z		
CHS565412	Relay	RVA4Q
CHS640165	Start Capacitor	156 uf / 330V
CHS685305	Run Capacitor	25 uf / 400V

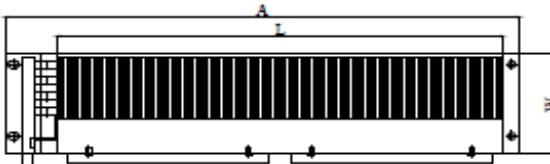
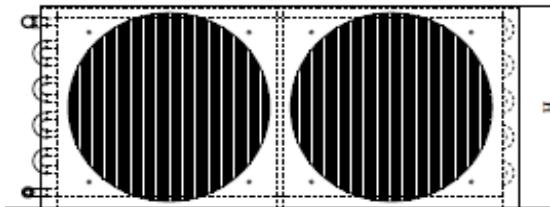
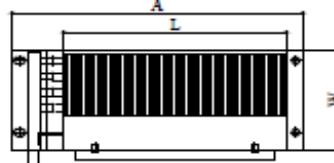
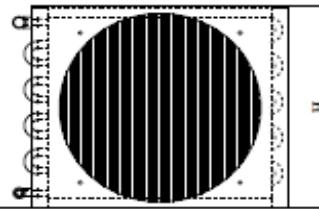
Stock Code	Description	Model
AEZ4460Z		
CHS665455	Relay	RP5418
CHS682317	Overload	T8107-23
CHS680236	Capacitor	64-77 uf / 330V
CAJ9480Z		
CHS665407	Relay	RVA413D
CHS571314	Overload	T0155/P9
CHS640168	Start Capacitor	88 uf / 250V
CHS685302	Run Capacitor	15 uf / 400V
CAJ9510Z		
CHS565443	Relay	RVA4030
CHS571505	Overload	MRA38128-3290
CHS640163	Start Capacitor	100 uf / 330V
CHS685302	Run Capacitor	15 uf / 400V
CAJ9513Z		
CHS565414	Relay	RVA3AN
CHS570344	Overload	MST16AHW
CHS640151	Start Capacitor	88 uf / 330V
CHS685302	Run Capacitor	15 uf / 400V
CAJ4517Z		
CHS665411	Relay	RVA4AP3D
CHS570652	Overload	MST00AGZ
CHS640163	Start Capacitor	100 uf / 330V
CHS685303	Run Capacitor	17.5 uf / 400V
CAJ4519Z		
CHS565400	Relay	RVA4G3D
CHS672105	Overload	GA3SHU00
CHS640244	Start Capacitor	100 uf / 250V
CHS685307	Run Capacitor	35 uf / 400V
FH4531Z		
CHS565103	Relay	RVA6M3D
	Start Capacitor	156 uf / 330V
CHS685307	Run Capacitor	35 uf / 400V

Compressor Accessories

	Stock Code	Vendors Code	Description	Unit	
Start Relays / Capacitors					
	ER0002	PO230	Solid State Relay 1/12 - 1/2HP - Push on type	EACH	
	ER0003	RO82	Relay & Overload 1/12 - 1/8HP	EACH	
	ER0004	RO62	Relay & Overload 1/6 - 1/5HP	EACH	
	ER0005	RO42	Relay & Overload 1/4 - 1/3HP	EACH	
	ER0006	URSC20	Solid State Relay & Pre-wired Start Capacitor - Prevents low voltage starting problems	EACH	
	ER0007	RCO820	3 in 1 Start Relay 1/12 - 1/8HP	EACH	
	ER0008	RCO620	3 in 1 Start Relay 1/6 - 1/5HP	EACH	
	ER0009	RCO420	3 in 1 Start Relay 1/4 - 1/3HP	EACH	
	ER0010	SPP5	Starter Power Pack - Used to increase start torque by 300% on 1/2 - 10HP single phase compressors	EACH	

Condensers

Stock Code	MODEL	CAPACITY DT1=15k		Fin Spacing (mm)	Surface (m ²)	Fan		Coil Dimension (mm)			
		(HP)	(kW)			Nº x Φ mm	Air Flow (m ³ /h)	L	H	W	
	HCB-1/4HP	1/4	1.21	3.17	2.3	1 x 250	1100	360	281	102	
	HCB-1/3HP	1/3	1.63	3.17	3.1	1 x 250	1100	380	270	120	
HCB005	HCB-1/2HP	1/2	2.37	3.17	4.5	1 x 250	1100	380	270	140	
HCB007	HCB-3/4HP	3/4	3.05	3.17	5.8	1 x 300	2050	450	370	152	
	HCB-1HP	1	4.05	3.17	7.7	1 x 300	2050	490	370	152	
HCB015	HCB-1.5HP	1.5	5.78	3.17	11	1 x 350	3110	600	422	182	
HCB020	HCB-2HP	2	7.77	3.17	14.8	1 x 400	4235	644	473	182	
	HCB-3HPCD	3	12.87	3.17	24.5	2 x 350	6220	1110	420	182	
HCB040	HCB-4HPCD	4	16.07	2.83	30.6	2 x 350	6220	1110	525	182	
	HCB-5HPCD	5	19.27	2.83	36.7	2 x 400	8470	1110	625	195	
HCB060	HCB-6HPCD	6	25.10	2.83	47.8	2 x 400	8470	1310	680	195	
HCB075	HCB-7.5HPCD	7.5	30.87	2.83	58.8	2 x 450	11200	1310	830	215	
HCB100	HCB-10HPCD	10	41.11	2.83	78.3	2 x 500	15800	1710	825	250	
HCB120	HCB-12HPCD	12	46.31	2.83	88.2	2 x 630	25600	1710	928	230	
HCB150	HCB-15HPCD	15	52.08	2.83	99.2	2 x 630	25600	1918	916	260	
HCB200	HCB-20HPCD	20	68.25	2.83	130	2 x 710	40600	2323	1075	227	
	HCB-25HPCD	25	75.03	2.83	142.9	2 x 710	40600	2323	1075	227	



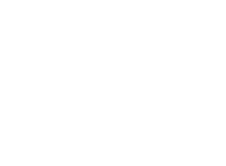
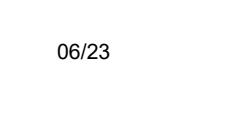
Tools, Hoses

Stock Code	Description	
Charging Hoses		
YJ21036	Yellow Jacket HAV-36" Yellow Hose 1/4"	
YJ21060	Yellow Jacket HAV-60" Yellow Hose 1/4"	
YJ21072	Yellow Jacket HAV-72" Yellow Hose 1/4"	
YJ21236	Yellow Jacket HAV-36" Blue Hose 1/4"	
YJ21260	Yellow Jacket HAV-60" Blue Hose 1/4"	
YJ21272	Yellow Jacket HAV-72" Blue Hose 1/4"	
YJ21636	Yellow Jacket HAV-36" Red Hose 1/4"	
YJ21660	Yellow Jacket HAV-60" Red Hose 1/4"	
YJ21672	Yellow Jacket HAV-72" Red Hose 1/4"	
YJ21405	Yellow Jacket 60" Yellow Hose 1/4" x 5/16" (A) - R410a	
YJ21423	Yellow Jacket 36" Blue Hose 1/4" x 5/16" (A) - R410a	
YJ21425	Yellow Jacket 60" Blue Hose 1/4" x 5/16" (A) - R410a	
YJ21463	Yellow Jacket 36" Red Hose 1/4" x 5/16" (A) - R410a	
YJ21465	Yellow Jacket 60" Red Hose 1/4" x 5/16" (A) - R410a	
YJ29463	Yellow Jacket 36" Red Hose 1/4" x 5/16" Angle Ball Valve - R410a	
YJ29423	Yellow Jacket 36" Blue Hose 1/4" x 5/16" Angle Ball Valve - R410a	
YJ21505	Yellow Jacket 60" Yellow Hose 5/16" x 5/16" (A) - R410a	
YJ21525	Yellow Jacket 60" Blue Hose 5/16" x 5/16" (A) - R410a	
YJ21565	Yellow Jacket 60" Red Hose 5/16" x 5/16" (A) - R410a	
YJ15636	Yellow Jacket BC-36" Heavy Duty Hose 3/8" Black	
YJ15660	Yellow Jacket BC-60" Heavy Duty Hose 3/8" Black	
YJ18160	Yellow Jacket BBA-60" Charging Hose 3/8" Yellow	
Charging Hose Sets		
YJ29483	Yellow Jacket 36" Set of 3 Charging Hoses 1/4" x 5/16" Angle Ball Valve	
YJ29983	Yellow Jacket 36" Set of 3 Charging Hoses 1/4" x 1/4" Angle Ball Valve	
YJ27102	Yellow Jacket 60" Set of 3 Charging Hoses 14mm x 1/2" Acme for Auto use	

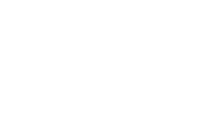
Tools, Gauges

	Stock Code	Description	
Gauges			
	YJ49033	Yellow Jacket 65mm Red Hi Side Gauge 22/134A/404A C Bar/Psi	
	YJ49034	Yellow Jacket 65mm Blue Lo Side Gauge 22/134A/404A C Bar/Psi	
	YJ49107	Yellow Jacket 80mm Red Hi Side Gauge 22/134A/404A C/F KPa/Psi	
	YJ49108	Yellow Jacket 80mm Blue Lo Side Gauge 22/134A/404A C/F KPa/Psi	
	YJ49053	Yellow Jacket 65mm Red Hi Side Gauge 410a C MPa/Psi	
	YJ49054	Yellow Jacket 65mm Blue Lo Side Gauge 410a C MPa/Psi	
	YJ49109	Yellow Jacket 80mm Red Hi Side Gauge 410A KPa/Psi	
	YJ49110	Yellow Jacket 80mm Blue Lo Side Gauge 410A KPa/Psi	
	YJ49141	Yellow Jacket 80mm Red Hi Side Heat Pump Gauge 410A Bar/Psi 0-800psi/0-55Bar	
	YJ49142	Yellow Jacket 80mm Blue Lo Side Heat Pump Gauge 410A Bar/Psi 0-800psi/0-55Bar	
	YJ49155	Yellow Jacket 65mm Red Hi Side Gauge R32 C Bar/kPa/Psi	
	YJ49156	Yellow Jacket 65mm Blue Lo Side Gauge R32 C Bar/kPa/Psi	
	YJ49161	Yellow Jacket 65mm Red Hi Side Gauge R1234YF C&F Bar/kPa/Psi	
	YJ49162	Yellow Jacket 65mm Blue Lo Side Gauge R1234YF C&F Bar/kPa/Psi	
Liquid Filled Gauges			
	YJ49519	Yellow Jacket 90mm Red Hi Side Gauge R410a C/F PSI/Bar	
	YJ49520	Yellow Jacket 90mm Blue Lo Side Gauge R410a C/F PSI/Bar	
	YJ49521	Yellow Jacket 90mm Red Hi Side Gauge 134a/404a/407c C/F PSI/Bar	
	YJ49522	Yellow Jacket 90mm Blue Lo Side Gauge 134a/404a/407c C/F PSI/Bar	
Gauge Boots			
	YJ49091	Yellow Jacket Red 2-1/2 Gauge Boot	
	YJ49092	Yellow Jacket Blue 2-1/2 Gauge Boot	
	YJ49191	Yellow Jacket Red 3-1/8 Gauge Boot	
	YJ49192	Yellow Jacket Blue 3-1/8 Gauge Boot	
	YJ49100	Yellow Jacket 3.1/8 Gauge Crystal	

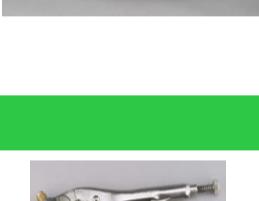
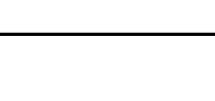
Tools, Gauge Sets, Adapters

	Stock Code	Description	
Manifold Sets			
	YJ49811	Yellow Jacket 2-Valve Titan Manifolds W/ 60" Plus II Hoses R22/134A/404A	
	YJ49815	Yellow Jacket 2-Valve Titan Manifolds No Hoses R410A	
	YJ49911	Yellow Jacket 4-Valve Titan Manifolds W/ 60" Plus II Hoses R22/134A/404A	
	YJ49915	Yellow Jacket 4-Valve Titan Manifolds No Hoses R410A	
	YJ49972	Yellow Jacket 4-Valve Titan Manifold No Hoses 2 x 0-800PSI/55Bar Gauges	
	YJ46140	Yellow Jacket 4-Valve Brute II R22/134A/404A Manifold no hoses	
	YJ41855	Yellow Jacket 41 Series Brass Manifolds W/ 60" Plus II Hoses R22/134A/404A	
	YJ41863	Yellow Jacket 41 Series Brass Manifolds No Hoses 5/16-1/4-5/16 R410a	
	YJ41866	Yellow Jacket 41 Series Brass Manifolds No Hoses 1/4-1/4-1/4 R600a	
	YJ40325	3-Port Single Gauge Charging Valve - no gauge included	
	YJ40870	Yellow Jacket P51 Series Digital Manifold. The flagship P51-870 has a 4.3" full colour touchscreen, bluetooth capabilities, and a backpack carry case for safe storage.	
	YJ67060	YJACK PATH	
	YJ67061	YJACK Temperature Clamp	
	YJ67062	YJACK Temperature Strap	
	YJ67063	YJACK Dew Psychrometer	
	YJ67070	YJACK Temperature Humidity Kit:2x Temperature Clamps, 1x YJACK PATH	
	YJ67071	YJACK Temperature Humidity Kit:2x Temperature Clamps, 2x YJACK Dew Psychrometer, 1x YJACK PATH	

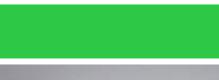
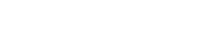
Tools, Gauges, Scales

	Stock Code	Description	
Vacuum Gauges			
	YJ69075	Yellow Jacket Full Range Micron Gauge	
	YJ69045	Yellow Jacket 80mm Mechanical Vacuum Gauge 1000-0 mill. & 30-0"	
	YJ69086	Yellow Jacket Handheld Vacuum Gauge Kit	
	YJ69020	Yellow Jacket Omni Vac with 1/4" fittings	
	YJ69021	Yellow Jacket Omni Vac with 5/16" fittings	
	YJ67001	Yellow Jacket Mantooth Single Point Wireless Digital Pressure/Temperature Gauge. With boot, temperature probe clamp, and USB cable	
	YJ67021	Yellow Jacket Mantooth Pressure Temperature Vacuum Single Gauge with Side Grip	
	YJ67023	Yellow Jacket Mantooth Pressure Temperature Vacuum Dual Gauge with Side Grip	
	YJ69087	Yellow Jacket Replacement Sensor for 69086	
	YJ69073	Yellow Jacket Sensor For 69070 & 69075	
	YJ69088	Yellow Jacket Replacement Cable (69086)	
	YJ40819	Yellow Jacket Replacement Cable newer version (69086)	
	YJ69071	Yellow Jacket Micron Gauge Coupler	
	YJ69067	Yellow Jacket Ball Valve For Sensor	
Scales			
	YJ68800	Yellow Jacket 50Kg Platform Scale	
	YJ68810	Yellow Jacket 100Kg Platform Scale	
	YJ68805	Yellow Jacket 230V Upgrade Kit W/Module	
	YJ68862	Yellow Jacket 220LB COMPACT SCALE W/BAG	

Tools, Vacuum Pumps & Recovery

	Stock Code	Description	
Vacuum Pumps			
	TP0042	Vacuum Pump 42l/m 1.5cfm	
	YJ93744	Yellow Jacket Superevac Pump - 95 L/M	
	YJ93764	Yellow Jacket Superevac Pump - 142 L/M	
	YJ93784	Yellow Jacket Superevac Pump - 190 L/M	
	YJ93533	Yellow Jacket Vacuum Pump - Ammonia - 190L/M	
	YJ95783	Yellow Jacket LTE Recovery Unit ½ hp, twin cylinder, oil-less compressor for fast recovery of Class III, IV and V refrigerants including R-410A . Single valve control panel	
	YJ95764	Yellow Jacket RECOVERXLT2-AP Recovery Unit ½ hp, twin cylinder, oil-less compressor for fast recovery of Class III, IV and V refrigerants including R-32, R-1234yf and R-1234ze. Patented single valve control for easy changeover from liquid to vapor to purge	
Recovery Pliers			
	YJ60667	Refrigerant Recovery Pliers	
	YJ60665	Yellow Jacket Pinch-Off Tool - Bar Style	
Charging Tools			
	YJ18975	1/4" 4-in-1 ball valve tool is perfect for vacuum, charge, cores and recovery. Remove and replace Schrader cores without losing charge. With side port	
	YJ18985	5/16" 4-in-1 ball valve tool is perfect for vacuum, charge, cores and recovery. Remove and replace Schrader cores without losing charge. With side port	
	YJ18978	1/4" Schrader Re-Threading Tool	
	YJ18988	5/16" Schrader Re-Threading Tool	
	YJ18997	1/4" Grappler Rod/Nut Assembly	
	YJ18987	5/16" Grappler Rod/Nut Assembly	
	YJ19121	5/16" Quick Coupler with adjustable valve opener Str. x 1/4" Male flare	
	YJ19122	1/4" Quick Coupler with adjustable valve opener Str. x 5/16" Male flare	
	YJ19165	1/2" Acme Female x 1/4" Male flare	
	YJ41123	1/4" Liquid Charging Adapter	
	YJ41124	5/16" Liquid Charging Adapter	
	YJ41337	Automotive R134a Hi Side Coupler 1/4" MF	
	YJ41338	Automotive R134a Lo Side Coupler 1/4" MF	
	YJ41441	1234YF High Side Auto Coupler 12mm Female thread	
	YJ41442	1234YF Lo Side Auto Coupler 12mm Female thread	
	TH0005	JB valve core torque tool automatically sets proper torque to 5" pounds (0.56 N-m). Calibrated to precise torquing requirements for core valves, the tool will no longer tighten once proper torque is achieved. Eliminates guess work which results in under and over torquing. Works with all Schrader valve cores.	

Tools, Benders, Expanders, Flaring, Cutters

	Stock Code	Description	
Benders			
	TH0100	3-in-1 Tube Bender 1/4 - 3/8	
	TH0106	Tube Bender 1/4	
	TH0109	Tube Bender 3/8	
	TH0112	Tube Bender 1/2	
	TH0116	Tube Bender 5/8	
	TH0119	Tube Bender 3/4	
	YJ60375	Yellow Jacket Tube Bender 3/8	
	YJ60377	Yellow Jacket Tube Bender 1/2	
	YJ60378	Yellow Jacket Tube Bender 5/8	
	YJ60379	Yellow Jacket Tube Bender 3/4	
	TH0126	Tube Bending Spring 1/4	
	TH0129	Tube Bending Spring 3/8	
	TH0132	Tube Bending Spring 1/2	
	TH0136	Tube Bending Spring 5/8	
	TH0139	Tube Bending Spring 3/4	
Tube Expanders			
	YJ60407	Yellow Jacket Expander kit with handles; heads for 3/8, 1/2, 3/4, 7/8, 1-1/8 ; deburring tool, carrying case, instructions	
	YJ60493	Yellow Jacket Hydraulic expander kit: heads for 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8, 1-5/8 plus small cutter, tube reamer, case and instructions	
	YJ60420	Yellow Jacket Expander Head 1.1/8	
	YJ60422	Yellow Jacket Expander Head 1.3/8	
	YJ60424	Yellow Jacket Expander Head 1.5/8	
Flaring and Swaging Tools			
	TH0001	Eccentric Flaring Tool 3/16 - 3/4	
	YJ60210	Yellow Jacket Heavy Duty Flaring Tool 3/16 - 5/8	
	YJ60250	Yellow Jacket Flaring/cutting kit for 3/16 to 5/8 with 60210 flaring tool, 60101 cutter, case	
	YJ60270	Yellow Jacket Flare/burnish tool for 3/16 to 5/8	
	YJ60440	Yellow Jacket Flare / Swage Kit 3/16 - 3/4	
	YJ60241	Yellow Jacket Drill Powered Flaring Tool 1/4 - 3/4 , With handle for manual flaring	
	YJ60430	Yellow Jacket Lightweight Flaring and Swaging Tool 1/4 - 3/4	
	YJ60431	Yellow Jacket Lightweight Flaring and Swaging Tool Imperial 1/4 - 3/4, Metric 6-18mm	
	YJ60476	Yellow Jacket Punch type Swaging Set 1/4 5/16 3/8 1/2 5/8	

Tools, Cutters, Deburring, Oil Pumps

	Stock Code	Description	
Tube Cutters			
	YJ60160	Yellow Jacket Small Mini Cutter 1/8 To 5/8	
	YJ60121	Yellow Jacket Mini Cutter 1/8 To 7/8	
	YJ60142	Yellow Jacket Big Mini Cutter 1/4 - 1.1/8	
	YJ60101	Yellow Jacket Small Premium Cutter 1/8 To 1-1/8	
	YJ60102	Yellow Jacket Large Premium Cutter 1/4 To 1-5/8	
	YJ60139	Yellow Jacket Large Tube Cutter 3/8 to 2.5/8	
	YJ60146	Yellow Jacket Large Tube Cutter 2 to 5.1/8	
	YJ60195	Yellow Jacket Capillary Tube Cutter	
	THPVC	PVC Pipe Cutter to 25mm	
Deburring Tool			
	YJ60163	Yellow Jacket Deburring Tool	
	YJ60164	Yellow Jacket Blade For 60163	
	YJ60166	Yellow Jacket Economy Deburring Tool	
Oil Pumps			
	YJ77940	Yellow Jacket Max-Flow Combination Pump	
	YJ77930	YJ Max-Flow Deluxe Oil Pump	

Tools, Leak Detectors, Analyser, Thermometers

	Stock Code	Description	
Leak Detectors			
	YJ69339	Yellow Jacket AccuProbe UV - Au/NZ	
	YJ69354	Yellow Jacket Heated AccuProbe II- Au/NZ	
	YJ69373	YJ Combustible Gas Detector with case	
	TH432	Inficon (716-202-G) D-TEK CO2 leak Detector	
	YJ69384	Yellow Jacket Replacement Sensor & Filter	
	YJ69385	Yellow Jacket Sensor Filters (Pack of 5)	
Refrigerant Analyser			
	YJ68945	Yellow Jacket Refrigerant Analyser	
	YJ68949	Yellow Jacket AC Power Adapter - Identifier	
		Dispersive infrared technology quickly determines the weight concentrations of R-12, R-22, R134a, hydrocarbons and air • Analytical software identifies EPA SNAP approved blends, as well as illegal replacements and blends including propane and butane • Quickly and automatically determines purity of R-12, R-22 and R-134a to help eliminate the potential of human error	
Thermometers, Hygrometers			
	TVA8060	V&A Dual Sensor Thermocouple Meter -200/+1300C	
	TVA6530	V&A Digital Probe Thermometer -50/+270 C	
	TVA8090	V&A Infrared and Thermocouple Thermometer Infrared -50/+300, Thermocouple -200/+1300C	
	TVA3408	K-Type thermocouple	
	TVA3431	K-Type Clamp Thermocouple	
	TVA3426	K-type Strap on Probe	
	TVA8010	V&A Temperature, Humidity & Dew Point Meter Dual Display, -10+50 C, 0-100%RH	
	TVA8021	V&A Temperature/Humidity/ Vane anemometer m/s, km/h, fpm, mph, kts, Beaufort, RH, td(dew point temperature), °C, °F	
	YJ69107	Yellow Jacket Digital Stick Thermometer -50/+150 C	
	TVA6502	V&A Digital Probe Thermometer -50/+270 C	
Clamp Meter, Sound Level Meter			
	TVA315	V&A Clamp Meter, Auto Range, MAX/MIN, Data Hold, DC 6/60/600/1000V, AC 6/60/600/700V, 600/1000A, etc	
	TVA8080	V&A Sound Level Meter, 31.5Hz-8kHz, 30-120dB	

Tools, Spares

	Stock Code	Description	
Yellow Jacket Spares			
	YJ18001	Yellow Jacket Cylinder Valve Hose Gasket	
	YJ19005	Yellow Jacket CH20 Gasket	
	YJ19011	Yellow Jacket CH11 Gasket	
	YJ19015	Yellow Jacket CH-80 Gasket	
	YJ19021	Yellow Jacket 1/8 In. Gasket	
	YJ19037	Yellow Jacket Sealright O-Rings	
	YJ19038	Yellow Jacket 1/4 Sealright Seal Kit	
	YJ19039	Yellow Jacket 1/4 Sealright Nut W/Clip	
	YJ19301	Yellow Jacket CH-75 Depressor	
	YJ19302	Yellow Jacket CH14 Depressor	
	YJ19304	Yellow Jacket 3/16 In. Depressor	
	YJ19022	Yellow Jacket Gasket, suits 60667 Pliers	
	YJ60668	Yellow Jacket Needle & Gasket for 60667	
	YJ60072	Yellow Jacket New Cutter Wheel - 60121	
	YJ60074	Yellow Jacket New Pin/Screw - 60121	
	YJ60077	Yellow Jacket Indiv Reamer Screw/Spacer	
	YJ60078	Yellow Jacket Individual Reamer	
	YJ60079	Yellow Jacket Indiv. Pin & Clip - 60101	
	YJ60080	Yellow Jacket 60121 Blade Screw	
	YJ60081	Yellow Jacket Individual 26883 Screw	
	YJ60082	Yellow Jacket Individual 74762 Screw	
	YJ60083	Yellow Jacket Individual 77511 Screw	
	YJ60098	Yellow Jacket Blade For Stainless	
	YJ60100	Yellow Jacket Blades For 60101 & 60102	
	YJ60106	Yellow Jacket Constrictor Wheel	
	YJ60108	Yellow Jacket Screw For Knob	
	YJ60110	Yellow Jacket Repl Imperial 32633 Blade	
	YJ60111	Yellow Jacket Repl Imperial 75015 Blade	
	YJ60112	Yellow Jacket Repl Imperial 75046 Blade	
	YJ60113	Yellow Jacket Repl Imperial 74761 Blade	
	YJ60120	Yellow Jacket Cutter Wheel 60121/60142	
	YJ60124	Yellow Jacket Blades For 60123 & 60139	
	YJ60130	Yellow Jacket Cutter Parts Kit	
	YJ60136	Yellow Jacket Ind. Screw/Retain - 60139	
	YJ60141	Yellow Jacket Cutter Wheel Screw - 60146	
	YJ60144	Yellow Jacket Indiv. Pin & Clip - 60142	
	YJ60147	Yellow Jacket Cutter Wheel - 60146	
	YJ77941	Yellow Jacket Stopper For 77940 Pump	
	YJ77942	Yellow Jacket Seal Kit For 77940	

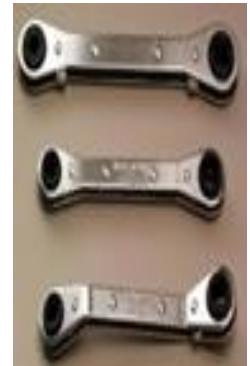
Tools, Gauge set spares

	Stock Code	Description	List Price Each
Yellow Jacket Spares			
	YJ41041	YJ Titan Yellow Handle	
	YJ41042	YJ Titan Blue Handle	
	YJ41044	YJ Titan Red Handle	
	YJ41049	YJ Titan Valve Nut	
	YJ41061	YJ Sight Glass Assy-Titan/II	
	YJ41087	YJ Brute Piston O-Ring	
	YJ41090	YJ Brute II Handle Screws	
	YJ41091	YJ Brute II Yellow Handle	
	YJ41092	YJ Brute II Blue Handle	
	YJ41094	YJ Brute II Red Handle	
	YJ41096	YJ Brute II Retaining Nut	
	YJ41103	YJ 3/8 Piston Assy - Brute /II	
	YJ41106	YJ Feed Screw - Brute/II	
	YJ41131	YJ Manifold O-Ring Series 41	
	YJ41133	YJ 1/4 Valve Piston Complete 41/Titan	
	YJ41134	YJ Valve Feed Screw 41/Titan	
	YJ41135	YJ Valve Retaining Nut 41/Titan	
	YJ41141	YJ Handle & Screw - Series 41	
	YJ93047	YJ Pump Drive Coupling	
	YJ41300	Oring Set for 41337/41338 Coupling	

Tools, Bags

	Stock Code	Description	
Tool Bags			
	PPVETOTECHLC	HVACR Technicians Large Tool Bag Model TECH-LC. With 53 pockets, ample room for hand tools, parts boxes, meters, a cordless impact drill and other bulkier items. 8 small neoprene pockets allow safe storage for drill bits and bit extensions.	
	PPVETOMB	HVACR Technicians Test Meter Tool Bag MB. The MB is a clip-on meter bag designed to hold a small selection of tools and one or two meters.	
	PPVETOMB2	HVACR Technicians Test Meter Tool Bag MB- Tall. The MB2 is a taller cousin to the regular MB bag. At 13" tall it offers the same roomy pockets, but with a little additional height. As with the MB, the MB2 offers the ability to clip on to larger Veto bags.	
	PPVETOTP3	HVACR Technicians Diagnostics Tool Bag TP3. The TP3 is a clip-on diagnostics bag designed to hold a meter and a variety of tools.	
	PPVETOTP4	Also designed to hold a meter and tools, the TP4 features 15 pockets of various sizes, and the ability to clip on to any Veto Tool Bag.	
	PPVETOTECHMCT	VETO HVAC Tech Series Medium Tool Bag. With pockets for a potential load of 50 tools, the Tech MCT has space for meters, a cordless drill, and countless other hand tools.	
	PPVETOOTXL	VETO Extra Large Open Top Tool Bag. This king sized bag boasts an incredible 40 tiered tool pockets, in addition to multiple zippered pockets, and the large open top means you always have access to all your favourite tools!	
	PPVETOOTLC	The OT-LC is a compact version of the XL Tool bag. The smaller size makes it convenient to transport, but with nearly 40 pockets, there's still plenty of capacity for all the necessities.	
	PPVETOTECHPAC1	A backpack tool bag designed specifically for professional tradesmen who need to climb ladders or walk long distances on a daily basis. With 56 pockets inside and out, the Tech Pac has ample room for hand tools, meters, parts boxes, cordless drills and impact drivers, as well as other bulkier items, such as manifold gauges, hoses, cable wores and even a tablet.	
	PPVETOTECHPACLT	Designed for tradesmen on the go, the Tech Pac LT features secure space for a laptop while still providing room for necessary hand tools and other accessories.	

Tools, Wrenches

	Stock Code	Description	
Miscellaneous			
	TM0002	Round Inspection Mirror, 50mm Telescoping handle 490mm	
Service Wrenches			
	YJ60616	Yellow Jacket Offset, Square 1/4x3/16 at one end; 3/8x5/16 at other.	
	YJ60615	Yellow Jacket Square 3/8 one end, Square 1/2 at other end	
	YJ60618	Yellow Jacket Heavy Duty, Square 3/16x1/4 at one end; 3/8x5/16 at other end.	
	TH446	Ratchet Wrench 1/4", 3/8" , 3/16" , 5/16" square ratchet.	
	YJ60648	Adjustable Digital Torque Wrench	

Refspecs Coolroom & Freezer Design Data R449A

Heat Load Tables

2°C Coolrooms		Based on:- 30°C Ambient Temperature 100mm Polystyrene Panel, Concrete Floor			16 Hours/Day Compressor Operation Design Usage Factor = Average to Heavy Design Storage Humidity = 85% RH		
External Dimensions - m					Heat Load - Watts		
Reference	Length	Width	Height	Internal Volume m³	Watts	Suggested Condensing Unit	Suggested Evaporator
532625	1.8	1.2	2.4	3.52	1100	RCU050M	HEA 2501
532626	1.8	1.8	2.4	5.63	1350	RCU075M	HEJ-2D
532628	1.8	2.4	2.4	7.74	1550	RCU100M	HEA 3001
532629	2.4	2.4	2.4	10.64	1850	RCU112M	HEA 2502
532631	2.4	3.0	2.4	13.55	1980	RCU112M	HEA 2502
532634	2.4	3.6	2.4	16.45	2370	RCU125M	HEA 3501
532635	3.0	3.0	2.4	17.24	2500	RCU125M	HEA 3501
532636	3.0	3.6	2.4	20.94	2670	RCU125M	HEA 3501
532637	3.6	3.6	2.4	25.43	2850	RCU150M	HEA 3002
532638	3.6	4.2	2.4	29.92	3200	RCU150M	HEA 3002
532639	4.2	4.2	2.4	35.20	3400	RCU150M	HEA 3002
-18°C Freezers					18 Hours/Day Compressor Operation Design Usage = Average To Heavy		
External Dimensions - m					Heat Load - Watts		
Reference	Length	Width	Height	Internal Volume m³	Average Usage	Suggested Condensing Unit	Suggested Evaporator
532641	1.8	1.2	2.4	2.83	860	RCU100L	HEC 2501 09 D
532644	1.8	1.8	2.4	4.72	1200	RCU150L	HEA 3001 D
532645	1.8	2.4	2.4	6.61	1320	RCU150L	HEA 3001 D
532647	2.4	2.4	2.4	9.26	1470	RCU150L	HEA 2502 D
532648	2.4	3.0	2.4	11.90	1700	RCU200L	HEA 2502 D
532649	2.4	3.6	2.4	14.55	2000	RCU200L	HEA 3501 D
532651	3.0	3.0	2.4	15.30	2005	RCU200L	HEA 3501 D
532653	3.0	3.6	2.4	18.71	2100	RCU300L	HEA 3002 D
532654	3.6	3.6	2.4	22.86	2400	RCU300L	HEA 3002 D
532656	3.6	4.2	2.4	27.02	2600	RCU300L	HEA 3002 D
532658	4.2	4.2	2.4	31.94	2800	RCUT400L	HEA 3502 D
-20°C Freezers					18 Hours/Day Compressor Operation Design Usage Factor = Average to Heavy Use		
External Dimensions - m					Heat Load - Watts		
Reference	Length	Width	Height	Internal Volume m³	Average Usage	Suggested Condensing Unit	Suggested Evaporator
532661	1.8	1.2	2.4	2.83	900	RCU100L	HEC 2501 09 D
532663	1.8	1.8	2.4	4.72	1200	RCU150L	HEA 3001 D
532664	1.8	2.4	2.4	6.61	1330	RCU200L	HEA 2502 D
532665	2.4	2.4	2.4	9.26	1500	RCU200L	HEA 2502 D
532666	2.4	3.0	2.4	11.90	1900	RCU300L	HEA 3501 D
532668	2.4	3.6	2.4	14.55	2000	RCU300L	HEA 3501 D
532670	3.0	3.0	2.4	15.30	2100	RCU300L	HEA 3501 D
532672	3.0	3.6	2.4	18.71	2460	RCUT400L	HEA 3002 D
532673	3.6	3.6	2.4	22.86	2600	RCUT400L	HEA 3002 D
532674	3.6	4.2	2.4	27.02	2800	RCUT400L	HEA 3002 D
532675	4.2	4.2	2.4	31.94	3100	RCUT400L	HEA 3002 D

Refspecs Condensing Unit Comparisons

Medium Temperature R134A Single Phase

Refspecs Condensing Unit	Disp	HP	Capacity Watts @ -5°C	Heatcraft Condensing Unit	Disp	HP	Capacity Watts @ -5°C	Pattons Condensing Unit	Disp	HP	Capacity Watts @ -5°C	R E Condensing Unit	Disp	HP	Capacity Watts @ -5°C
RCUY038M	12	1/3	667	AET4440YHR	12	1/3	667	UNE6187Z	12	1/3	750	BA12LMYB2	12.1	1/3	680
RCUY050M	18.3	1/2	1004	AET4460YHR	18.3	1/2	933	UT6215Z	20.4	1/2	1128	BA18LZB2	18	1/2	1210
RCUY075M	25.9	3/4	1513	CAJT4492YHR	25.9	3/4	1552	UNJ6220Z	26.2	3/4	1529	WJ26LZB2	26.8	3/4	1730
RCUY100M	32.7	1	1873	CAJT4511YHR	32.7	1	1917	UNJ6226Z	34.4	1	2035	WJ31MHYB3	30.5	1	2000
RCUY150M	53.2	1 1/2	2921	FHT4518YHR	53.2	1 1/2	3026					AW48MHYB5	48.1	1 1/2	3090

Medium Temperature R404A Single Phase

RCU100M	18.3	1	1834	CAJT9510ZMHR	18.3	1	1888	NT6220GK	17.4	5/8	1072	BA18MGB2	18	3/4	1900
RCU112M	24.2	1 1/8	2210	CAJT9513ZMHR	24.2	1 1/8	2178	NJ9226GK	21.7	3/4	2094	WJ22MHGB2	21.5	7/8	2330
RCU125M	25.9	1 1/4	2792	CAJT4517ZHR	25.9	1 1/4	2792	NJ9232GK	26.2	1 1/4	2550	WJ26MHGB3	26.8	1	2820
RCU150M	34.4	1 1/5	3533	CAJT4519ZHR	34.4	1 1/2	3452	NJ9238GK	32.7	1 1/2	3157	AW38MGB3	37.5	1 1/2	3570
RCU200M	40.8	2	3844	FHT4524ZHR	43.5	2	3768	CCKS200	44.4	2	3380	AW43MHGB3	43.1	2	4410
RCU250M	56.6	2 1/2	5169	FHT4531ZHR	56.6	2 1/2	5169					AW54MGB5	53.5	2 1/2	5120

Medium Temperature R404A Three Phase

RCUT300M	72.1	3	6475	TFHT4540ZHR	74.2	3	6136	CCK300	74.3	3	6460	RMTXZ300	74.2	3	6120
RCUT375M	90.2	3 3/4	7949					CCK400	92.4	4	8370				7460
RCUT500M	112.5	5	9733	TAGT4561ZHR	112.5	5	9544	CCK500	106.2	5	9990	TAG4561Z	112.5	5	9980
RCUT625M	134.8	6 1/4	11596	TAGT4573ZHR	134.8	6	11801					TAG4573Z	134.8	6 1/4	11640

Low Temperature R404A Single Phase Capacity @ -25°C

RCU150L	35.4	1 1/2	1434	CAJ2464ZBR	35.4	1 1/2	1463	NJ2212GK	34.4	1 1/2	1479	RLTZ150	43.1	1 1/2	2040
RCU200L	53.2	2	2069	FH2480ZBR	53.2	2.0	2030	CCNS180	61.4	1 3/4	2090	RLTZ200	53.5	2	2180
RCU300L	74.3	3	2682	FH2511ZBR	74.3	3.0	2810								

Low Temperature R404A Three Phase Capacity @ -25°C

RCUT300L	74.3	3	2682	TFHT2511ZBR	74.3	3	2810	SK300	8.1	2600.0	3100	RLTZ300	74.2	3	2680
RCUT400L	112.5	4	3997	TAGT2516ZBR	112.5	4	3723	SK400	11.8	3700.0	4600	RLTZ400	112.5	4	4070
RCUT500L	134.8	5	4988	TAGT2522ZBR	134.8	5	4737	SK500	14.5	4500.0	5500	RLTZ500	134.8	5	6040

Refspecs Evaporator Comparisons R449a

Refspecs MT / LT Evaporators	Evaporator Capacity Watts MT / LT	Actrol Med Temp Evaporators	Capacity Watts @ 6KTD	Actrol Low Temp Evaporators	Capacity Watts @ 6KTD	Patton Med Temp Evaporators	Capacity Watts @ 6KTD	Patton Low Temp Evaporators	Capacity Watts @ 6KTD	Heatcraft Med Temp Evaporators	Capacity Watts @ 6KTD	Heatcraft Low Temp Evaporators	Capacity Watts @ 6KTD
HEJ-1D	619 / 514					SM06	720	SL050	510	KC550	599	KF600	589
HEJ-2D	1228 / 1029					SM10	1170	SL105	1050	KC1001	1121	KF1000	1112
HEJ-3D	1848 / 1544					SM16	1740	SL120	1200	KC1700	1786	KF1380	1397
HEJ-4D	2457 / 2049									KC2100	2233	KF1650	1625
HEA 2501	1354 / 1158									KMT013W	1254	KLT013W	1216
HEA 3001D	1785 / 1514	CH4B1/30-1	1691	CH4B1/30E-1	1349	BM15	1620	BL14	1380	KMT016W	1539	KLT015W	1397
HEA 250D	2625 / 2237	CH4B1/35-1	2442	CH4B1/35E-1	1960	BM26	2730	BL20	1950	KMT027W	2565	KLT024W	2280
HEA 3002D	3612 / 3069	CH4D1/35-1	3615	CH4E1/35E-1	2927	BM32	3240	BL27	2790	KMT034W	3230	KLT030W	2850
HEA 2503D	3853 / 3276	CH4E1/35-1	3870	CH4C2/30E-1	3097	BM37	3930	BL27	2790	KMT038W	3591	KLT036W	3420
HEA 2504D	5145 / 4375	CHB2/35-1	5171	CH4B2/35E-1	4276	BM44	4620	BL38	3900	KMT051W	4798	KLT042W	3943
HEA 3003D	5470 / 4662	CHB2/35-1	5171	CH4B2/35E-1	4276	BM52	5490	BL42	4200	KMT060W	6552	KLT050W	4703
HEA 4002	6625 / 5643	CH4C2/35-1	6359	CH4D2/35E-1	5846	BM62	6510	BL56	5640	KMT067W	6318	KLT062	5890
HEA 3004	7203 / 6138	CH4D2/35-1	7182	CH4E2/35E-1	6118	BM66	7020	PL60	6150	KMT081W	7648	KLT067W	6318
HEA 4003	8358 / 7118	CH4E2/35-1	7891	CH4C3/35E-1	7705	BM76	8100	PL70	7050	KMT093W	8835	KLT075W	7078
HEA 3006	10857 / 9246	CH4D3/35-1	11052	CH4E3/35E-1	9156	PM95	10200	PL95	9540	KMT106W	10070	KLT1000W	9500
HEA 4004	13839 / 11781	CH4D4/35-1	14738	CH4D4/35E-1	11676	PM130	13950	PL130	13140	KMT132W	12540	KLT126W	11970

Notes

Notes

Refrigerant Alternatives

ASHRAE No: R -	Replaces	Type	Brand Name	Lubricant			Uses
				LOW: -35	Med: -15	High +10	
R513A	R134a	HFO	XP10		POE		MT/HT
R134a	R12	HFC		N/A	RL32 / RL68	RL68	MT / LT
R600a*	R12	HC	Care 10		MO		MT
R290*	R12	HC	Care 40		MO		MT
R1234yf**	R134a	HFO			POE		Car A/C
R404A	R502	HFC	HP62	RL32	RL32/ RL68	RL68	MT / LT
R507	R502	HFC	AZ50	RL32	RL32/ RL68	RL68	MT / LT
R407F	R404A / R22	HFC		RL32	RL32/RL68	RL68	MT
R449A	R404A / R22	HFO	XP40	RL32	RL32/RL68	RL68	MT / LT
R407C	R22	HFC	Klea 66	N/A	RL32 / RL68	RL68	A/C / MT
R410A		HFC	AZ20	N/A	RL32 / RL68	RL68	A/C
R417A	R22	HFC	MO59		POE RL32 /RL68 MIN 3 or 4GS	POE RL68 / MIN 4GS	A/C
R438A	R22	HFC	MO99		POE RL32 /RL68 MIN 3 or 4GS	POE RL68 / MIN 4GS	A/C
R32**	R22	HC		RL32	RL32 / RL68	RL68	A/C
R452A	R404a / R507	HFO	XP44		POE		Transport Industry
* / ** Only to be used in systems that are designed for flammable Refrigerants							
HFC = Hydrofluorocarbon	MO = Mineral Oil			POE = Polyolester Oil			
HC = Hydrocarbon	*Flammable Refrigerant						
HFO = Hydrofluoroolefin	**Mildly Flammable Refrigerant						



TC-940Ri Operating Parameters

FUN	Parameter Description	Min	Max	Units
F01	Password 123	—	—	—
F02	Control differential (Hysteresis)	0.1	20	°C
F03	Temperature reading offset (Probe calibration)	-5	5	°C
F04	Setpoint lock. Minimum setpoint allowed	-50	75	°C
F05	Setpoint lock. Maximum setpoint allowed	-50	75	°C
F06	Type of defrost (0=Elements, 1=Hot gas)	0	1	—
F07	Start defrost on time or temperature (0=Time, 1=Temp)	0	1	—
F08	Interval Between Defrost (Only if F07=0)	1	999	Min
F09	Maximum time the refrigeration can run without a defrost (Only if F07=1)	1	240	hour
F10	Start Temperature of defrost (Only if F07=1)	-50	75	°C
F11	The time S2 sensor must remain at the temperature set in F10 before defrosting	0	90	min
F12	Start Defrost when controller is powered up	0>No	1=Yes	—
F13	End defrost temperature (S2 Sensor)	-50	75	°C
F14	Maximum duration of defrost	0	90	—
F15	Fans on during defrost	0>No	1=Yes	—
F16	Delay of first defrost after controller power up (Only if F0=0)	0	999	Min
F17	Lock temperature display during defrost	0>No	1=Yes	—
F18	Dripping Time	0	30	Min
F19	Start fan temperature after defrost (S2 Sensor)	-50	75	°C
F20	Fan delay after dripping time	0	3	Min
F21	Fans on with compressor	0=Yes	1=No	—
F22	High temperature fan cutout (S2 Sensor)	-50	75	°C
F23	Differential for starting fans after high temp cut out	0.1	20	°C
F24	Low temperature alarm (S1 Sensor)	-50	75	°C
F25	Low temperature alarm differential	0.1	20	°C
F26	High temperature alarm (S1 Sensor)	-50	75	°C
F27	High temperature alarm differential	0.1	20	°C
F28	Alarm delay after controller power up	0	999	Min
F29	Alarm delay after dripping time	0	999	Min
F30	Start delay on power up of controller	0	240	Min
F31	Minimum on time of compressor	0	999	Min
F32	Minimum off time of compressor	0	999	Min
F33	Compressor on or off with a faulty S1 sensor (Ambient)	0=Off	1=On	—

Basic parameters that need to be set. (Don't forget setpoint)

Modification Of The Set Point

Press & hold **Set** key for 2 sec and Release set when **SEL** is displayed.

Use the **Up & Down** keys to select the desired setpoint.

Press the **Set** Key to confirm new setpoint

Modification Of Parameters

Press & hold simultaneously the **Up & Down** Keys until **FUN** is displayed

Release the keys and wait until the first parameter F01 is displayed.

Press the **Set** key and enter the password **123** using **Up & Down** keys

Confirm Password by pressing **Set**.

Use **Up & Down** keys to select next parameter then press **Set** to enter parameter

Use **Up & Down** keys to select desired value and press **Set** to confirm new setting.

Once parameter modification is completed press & hold the **Set** key until

--- is displayed. The controller will now return to normal operation.

Activate A Manual Defrost

Press & hold **Up** key four 4 sec until **DEF** or **REF** is displayed

Release the Up key and controller will go into defrost.

Minimum & Maximum Temperatures

Press the **Up** key & T1 will be displayed followed by the maximum & minimum temperature for the S1 sensor. T2 will then be displayed followed by the maximum & minimum temperature of the S2 sensor.

Alarm and Error Codes

ER1	Room temperature sensor (S1) is disconnected or out of specified range
ER2	Defrost temperature sensor (S1) is disconnected or out of specified range
ALO	Low temperature alarm. Check parameter F24
Ahi	Low temperature alarm. Check parameter F26
*	Flashes on right side of display. Defrost has ended on time and not temperature



TC-940Ri Plus Operating Parameters

FUN	Parameter Description	Min	Max	Units	F.Set
F01	Password 123	—	—	—	—
F02	Control differential (Hysteresis)	0.1	20	°C	1.5
F03	Temperature reading offset (Room probe calibration)	-5	5	°C	0
F04	Temperature reading offset (Evaporator Probe calibration)	-5	5	°C	0
F05	Setpoint lock. Minimum setpoint allowed	-50	75	°C	-50
F06	Setpoint lock. Maximum setpoint allowed	-50	75	°C	75
F07	Type of defrost (0=Elements, 1=Hot gas)	0	1	—	0
F08	Start defrost on time or temperature (0=Time, 1=Temp)	0	1	—	0
F09	Interval Between Defrosts (Only if F07=0)	1	999	Min	240
F10	Maximum time the refrigeration can run without a defrost (Only if F07=1)	1	240	Hours	24
F11	Start Temperature of defrost (Only if F07=1)	-50	75	°C	-5
F12	The time S2 sensor must remain at the temperature set in F10 before defrosting	0	90	Min	10
F13	Start Defrost when controller is powered up	0=No	1=Yes	—	0
F14	End defrost temperature (S2 Sensor)	-50	75	°C	40
F15	Maximum duration of defrost	0	90	Min	45
F16	Fans on during defrost	0=No	1=Yes	—	0
F17	Delay of first defrost after controller power up (Only if F0=0)	0	999	Min	0
F18	Lock temperature display during defrost	0=No	1=Yes		0
F19	Dripping Time	0	30	Min	10
F20	Start fan temperature after defrost (S2 Sensor)	-50	75	°C	0
F21	Fan delay after dripping time	0	30	Min	1
F22	Fans on with compressor (0=Fans on with compressor only 1=Fans on always)	0=Yes	1=No	—	1
F23	High temperature Evap fan cut out (S2 Sensor)	-50	75	°C	75
F24	Differential for starting fans after high temp cut out	0.1	20	°C	2
F25	Low temperature alarm (S1 Sensor)	-50	75	°C	-50
F26	Low temperature alarm differential	0.1	20	°C	1
F27	High temperature alarm (S1 Sensor)	-50	75	°C	75
F28	High temperature alarm differential	0.1	20	°C	1
F29	Alarm delay after controller power up	0	999	Min	0
F30	Alarm delay after dripping time	0	999	Min	0
F31	Configuration of digital input. (See TC 940RI Plus data sheet for options)	0	3	—	0
F32	Time delay for activation of door switch	0	99		0
F33	Time for fans to run on after defrost start	0	99	Min	0
F34	Start delay on power up of controller	0	240	Min	0
F35	Minimum on time of compressor	0	999	Min	0
F36	Minimum off time of compressor	0	999	Min	0
F37	Compressor on or off with a faulty S1 sensor (Ambient)	0=Off	1=On	—	1
F38	Probe display speed (Larger the value longer the response time of the sensor S1)	0	9	—	0
F39	Network address for RS-485	0	247	—	1

Basic parameters that need to be set. (Don't forget setpoint)

F.Set = Factory Settings

Modification Of The Set Point

Press & hold **Set** key for 2 sec and Release set when **SEL** is displayed.

Use the **Up & Down** keys to select the desired setpoint.

Press the **Set** Key to confirm new setpoint

Modification Of Parameters

Press & hold simultaneously the **Up & Down** Keys until **FUN** is displayed

Release the keys and wait until the first parameter F01 is displayed.

Press the **Set** key and enter the password **123** using **Up & Down** keys

Confirm Password by pressing **Set**.

Use **Up & Down** keys to select next parameter then press **Set** to enter parameter

Use **Up & Down** keys to select desired value and press **Set** to confirm new setting.
Once parameter modification is completed press & hold the **Set** key until --- is displayed. The controller will now return to normal operation.

Activate A Manual Defrost

Press & hold **Up** key four 4 sec until **DEF** or **REF** is displayed

Release the Up key and controller will go into defrost.

Minimum & Maximum Temperatures

Press the **Up** key & T1 will be displayed followed by the maximum & minimum temperature for the S1 sensor. T2 will then be displayed followed by the maximum & minimum temperature of the S2 sensor.

Alarm and Error Codes

- ER1 Room temperature sensor (S1) is disconnected or out of specified range
- ER2 Defrost temperature sensor (S1) is disconnected or out of specified range
- ALO Low temperature alarm. Check parameter F24
- Ahi Low temperature alarm. Check parameter F26
- * Flashes on right side of display. Defrost has ended on time and not temperature



MT-512E 2HP Operating Parameters

FUN	Parameter Description	Min	Max	Units
F01	Password 123	—	—	—
F02	Setpoint			
F03	Temperature reading offset (Probe calibration)	-5	5	°C
F04	Setpoint lock. Minimum setpoint allowed	-50	75	°C
F05	Setpoint lock. Maximum setpoint allowed	-50	75	°C
F06	Control differential (Hysteresis)	0.1	20	°C
F07	Operating	0 = Cooling	1 = Heating	
F08	Minimum On Time Of Compressor	No	999	Sec
F09	Minimum Off Time Of Compressor	No	999	Sec
F10	Interval Between Defrost	1	999	Min
F11	Duration of Defrost	0	999	Min
F12	Operation of controller on power up	0=No	1=Yes	—
F13	Lock temperature display during defrost	0=No	1=Yes	—
F14	Time Start delay on power up of controller	0	240	Min
F15	Run on of the compressor after the first cycle	0	240	Min
F16	Compressor status in case of faulty probe	1	2	—
F17	Compressor on time in case of faulty probe	1	999	Min
F18	Compressor Off time in case of faulty probe	1	999	Min
F19	Sample time of sensor	No	60	Sec
F20	Time for functions lockdown	No	60	Sec
F21	Control function shutdown	No	2	

Modification Of Set Point

Press & hold **Set** key for 2 sec and Release set when **SEL** is displayed.

Use the **Up & Down** keys to select the desired setpoint.

Press the **Set** Key to confirm new setpoint

Modification Of Parameters

Press & hold simultaneously the **Up & Down** Keys until **FUN** is displayed

Release the keys and wait until the first parameter F01 is displayed.

Press the **Set** key and enter the password **123** using **Up & Down** keys

Confirm Password by pressing **Set**.

Use **Up & Down** keys to select next parameter then press **Set** to enter parameter

Use **Up & Down** keys to select desired value and press **Set** to confirm new setting.

Once parameter modification is completed press & hold the **Set** key until --- is displayed.

The controller will now return to normal operation.

Activate A Manual Defrost

Press the key above the set key until **defr** appears and then press the **set** to select. The message **defr On** will appear.

Follow the same sequence to turn off the forced defrost.

Selecting Units Of Measure C ° / F °

Press & hold simultaneously the **Up & Down** Keys until **FUN** is displayed

Release the keys and wait until the first parameter F01 is displayed.

Press the **Set** key and enter the password **231** using **Up & Down** keys and confirm with the **set** key

Press **Up** key and **UNI** appears. Press **set** key and select **F°** or **C°** using **up & down** keys.

Press **set** and **FAC** will appear and **set** again and **F01** will be displayed. Confirm by pressing and holding **set**.

Please note: Everytime the unit of measue is changed that all parameters will be reset back to factory settings

Minimum & Maximum Temperatures

Press the **Up** key and the message **re9** will appear followed by the minimum and maximum recorded temperatures.

Basic parameters that need to be set. (Don't forget setpoint)



MT-512Ri Plus Operating Parameters

FUN	Parameter Description	Min	Max	Units
F01	Password 123	—	—	—
F02	Temperature reading offset (Probe calibration)	-5	5	°C
F03	Setpoint lock. Minimum setpoint allowed	-50	75	°C
F04	Setpoint lock. Maximum setpoint allowed	-50	75	°C
F05	Control differential (Hysteresis)	0.1	20	°C
F06	Compressor Start Delay	0	999	Sec
F07	Interval Between Defrost	1	999	Min
F08	Duration of Defrost	0	999	Min
F09	Start Defrost on power up of controller	0=No	1=Yes	—
F10	Lock temperature display during defrost	0=No	1=Yes	—
F11	Start delay on power up of controller	0	240	Min
F12	Run on of the compressor after the first cycle	0	240	Min
F13	Instrument address on RS-485 network (Sitrad)	1	247	—

Modification Of Set Point

Press & hold **Set** key for 2 sec and Release set when **SEL** is displayed.

Use the **Up & Down** keys to select the desired setpoint.

Press the **Set** Key to confirm new setpoint

Modification Of Parameters

Press & hold simultaneously the **Up & Down** Keys until **FUN** is displayed

Release the keys and wait until the first parameter F01 is displayed.

Press the **Set** key and enter the password **123** using **Up & Down** keys

Confirm Password by pressing **Set**.

Use **Up & Down** keys to select next parameter then press **Set** to enter parameter

Use **Up & Down** keys to select desired value and press **Set** to confirm new setting.

Once parameter modification is completed press & hold the **Set** key until **---** is displayed.

The controller will now return to normal operation.

Activate A Manual Defrost

Press & hold **Up** key four 4 sec until **DEF** or **REF** is displayed

Release the Up key and controller will go into defrost.

Selecting Units Of Measure C ° / F °

Press & hold simultaneously the **Up & Down** Keys until **FUN** is displayed

Release the keys and wait until the first parameter F01 is displayed.

Press the **Set** key and enter the password **231** using **Up & Down** keys and confirm with the set key

Press **Up** key and **UNI** appears. Press **set** key and select **F°** or **C°** using **up & down** keys.

Press **set** and **FAC** will appear and **set** again and **F01** will be displayed. Confirm by pressing and holding **set**.

Please note: Everytime the unit of measure is changed that all parameters will be reset back to factory settings

Minimum & Maximum Temperatures

Press the **Up** key & T1 will be displayed followed by the maximum & minimum temperature

To reset the logs keep the **Up** key pressed during the viewing of the minimum maximum temperatures until to be displayed.

RST is displayed

Basic parameters that need to be set. (Don't forget setpoint)



PEGO ECP200 & ECP300 Expert Cheat Sheet

FUN	Parameter Description	Min	Max	Units	Def
Level 1 Parameters (User level)					
r0	Control Differential Hysteresis	0.2	10	°C	2
d0	Interval between defrost	0	24	Hours	4
d2	End of defrost temperature	-35	45	°C	15
d3	Maximum duration of defrost	1	240	Min	25
d7	Dripping time after defrost (Defrost LED flashes when in dripping time)	0	10	Min	0
F5	Fan delay. Delay of evap fans after dripping time.	0	10	Min	0
A1	Low temperature alarm setpoint (Alarm LED & display temp flashes & buzzer)	-45	45	°C	-45
A2	High temperature alarm setpoint (Alarm LED & display temp flashes & buzzer)	-45	45	°C	45
tEu	Evaporator sensor temperature display.	Read only		°C	
Level 2 Parameters (Installer Level)					
AC	Status of contacts for door Switch digital input with door closed	0=NO	1=NC	---	NO
F3	Fans run with compressor - (0=Fans On continuously 1= on/off with compressor)	0	1	---	1
F4	Fans on during defrost	0=Yes	1=No	---	1
dE	Enable/Disable evaporator sensor (Change to 1 when using as a chiller controller)	1=disable	0=enable	---	0
d1	Defrost Type	0=element	1=hot gas	---	0
Ad	Serial address for Telenet	1	247	---	1
Ald	Alarm delay	1	240	Min	0
C1	Minimum time between Compressor stop and start.	0	15	Min	0
Cal	Temperature reading offset (Probe calibration)	-10	10	°C	0
PC	Status of contacts for compressor safety of digital input	0=NO	1=NC	---	NO
doC	Time delay for activation of door switch. (Compressor will shutdown)	0	5	Min	0
tdo	Re-start of compressor after door open. Will keep signaling door open alarm.	0	240	Min	0
Fst	High temperature fan cut out (Probe 2,Evap sensor)	-45	45	°C	0
Fd	Differential for restarting fans after high temp cut out (Fst)	0	10	°C	2
LSE	Setpoint Lock. Minimum setpoint allowed	-45	45	°C	-45
HSE	Setpoint Lock. Maximum setpoint allowed	-45	45	°C	45
tA	Status of alarm relay contact	0=NO	1=NC	---	1
AU	Configuration of Alarm/Aux relay. See manual for instructions	0	7	---	0
stA	Temperature setting of alarm relay. (When parameter AU=2_	-45	45	°C	0
In1	Configuration of In1 input 0=Man in cool room 1= Compressor safety	0	1	---	0
PS	Password level of protection. See manual for instructions	0	3		0
PA	Select Password 0=Disabled	0	999		0
reL	Indicates software release.				

Modification Of The Set Point

Press & hold the **Set** key while using the **Up & Down** keys to select the desired setpoint. Release the **Set** key to return to normal operation. The Setpoint will be saved automatically

Modification Of Level One Parameters

Press & hold simultaneously the **Up & Down Keys** until **r0** is displayed. Use **Up & Down** keys to select next parameter and then press & hold **Set**. Use **Up & Down** keys to select desired value and then release **Set** the set key. Once parameter modification is completed press & hold simultaneously the **Up & Down** keys until the room temperature is displayed.

The controller will now return to normal operation saving the new settings.

Modification Of Level Two Parameters

Press & hold simultaneously the **Up & Down & Light Keys** until **AC** is displayed. Release the **Up & Down Keys** Selecting and changing a parameter is the same as the level one parameters above.
* Start on line 3.

Activate A Manual Defrost

Press & hold the **Down** key and controller will go into defrost.

Alarm & Error Codes

EO	Ambinet probe 1 is faulty or disconnected
E1	Defrost probe 2 is faulty or disconnected
E2	Eeprom memory error. All outputs except the alarm are deactivated
E8	Man in cold room alarm. Check Digital input INP1
EC	Compressor protection alarm. Check digital INP1
ED	Door open alarm. Check digital INP2

Temperature Flashing on the display

High or low temperature alarm. Check Parameters A1 or A2



PEGO Expert Nano 1 Chiller Cheat Sheet

Modification Of The Set Point

Press & hold the **Set** key while using the **Up & Down** keys to select the desired setpoint. Release the **Set** key to return to normal operation. The Setpoint will be saved automatically.

Modification Of Level One Parameters

Press & hold simultaneously the **Up & Down** Keys until **r0** is displayed.
Use **Up & Down** keys to select next parameter and then press & hold **Set**
Use **Up & Down** keys to select desired value and then release **Set** the set key.
Once parameter modification is completed press & hold simultaneously
the **Up & Down** keys until the room temperature is displayed.
The controller will now return to normal operation saving the new settings.

Modification Of Level Two Parameters

Press & hold simultaneously the **Up**, **Down** & **Standby** Keys until **C1** is displayed.
Selecting and changing a parameter is the same as the level one parameters above.
* Start on line 3.

Activate A Manual Defrost

Press & hold the **Down** key and controller will go into defrost.

Error And Alarm Codes

E0	Ambinet probe 1 is faulty or disconnected
E2	Eeprom memory error. All outputs except the alarm are deactivated
EL	Low Temperature Alarm. Check Parameter A1
EH	High Temperature Alarm. Check Parameter A2



PEGO Expert Nano 3 (Freezer) Cheat Sheet

FUN	Parameter Description	Min	Max	Units	Def
Level 1 Parameters (User level)					
r0	Control Differential Hysteresis	0.2	10	°C	2
d0	Interval between defrost	0	24	Hours	4
d2	End of defrost temperature	-35	45	°C	15
d3	Maximum duration of defrost	1	240	Min	25
d7	Dripping time after defrost (Defrost LED flashes when in dripping time)	0	10	Min	0
F5	Fan delay. Delay of evap fans after dripping time.	0	10	Min	0
A1	Low temperature alarm setpoint (Alarm LED & display temp flashes & buzzer)	-45	45	°C	-45
A2	High temperature alarm setpoint (Alarm LED & display temp flashes & buzzer)	-45	45	°C	45
tEu	Evaporator sensor temperature display.	Read only		°C	
Level 2 Parameters (Installer Level)					
F3	Fans run with compressor - (0=Fans On continuously 1= on/off with compressor)	0	1	---	1
F4	Fans on during defrost	0=Yes	1=No	---	1
Fst	High temperature fan cut out (Probe 2,Evap sensor)	-45	45	°C	0
Fd	Differential for restarting fans after high temp cut out (Fst)	0	10	°C	2
dE	Enable/Disable evaporator sensor (Change to 1 when using as a chiller controller)	1=disable	0=enable	---	0
d1	Defrost Type	0=element	1=hot gas	---	0
C1	Minimum time between Compressor stop and start.	0	15	Min	0
CE1	Run time of compressor in the event of a faulty probe (0=Disabled)	0	240	Min	0
CE2	Off time of compressor in the event of a faulty probe (0=Disabled)	0	240	Min	0
doC	Time compressor runs on activation of door switch (Compressor will shutdown)	0	5	Min	0
tdo	Re-start of compressor and fans during door open alarm.	0	240	Min	0
m0d	Functioning Mode (In heating mode defrost functions disabled)	0=Cooling	1=Heating	---	0
In1	Configuration of digital input (See installation for setting modes)	-6	6	---	1
D02	Output D02 configuration. 0= Defrost elements 1= Door light	0	1	---	0
LSE	Setpoint Lock. Minimum setpoint allowed	-45	45	°C	-45
HSE	Setpoint Lock. Maximum setpoint allowed	-45	45	°C	45
Cal	Temperature reading offset (Probe calibration)	-10	10	°C	0
Ald	Alarm delay	1	240	Min	0
Ad	Serial address for Telenet	1	247	---	1
Ser	RS485 Protocol 0=Telnet,Pego Sys 2= Modbus- RTU Protocol				
P1	Password level of protection. See manual for instructions	0	3		0
PA	Select Password 0=Disabled	0	999		0
reL	Indicates software release.				

Modification Of The Set Point

Press & hold the **Set** key while using the **Up & Down** keys to select the desired setpoint. Release the **Set** key to return to normal operation. The Setpoint will be saved automatically

Modification Of Level One Parameters

Press & hold simultaneously the **Up & Down** Keys until **r0** is displayed. Use **Up & Down** keys to select next parameter and then press & hold **Set**. Use **Up & Down** keys to select desired value and then release **Set** the set key. Once parameter modification is completed press & hold simultaneously the **Up & Down** keys until the room temperature is displayed. The controller will now return to normal operation saving the new settings.

Modification Of Level Two Parameters

Press & hold simultaneously the **Up, Down & Standby** Keys until **F3** is displayed. Selecting and changing a parameter is the same as the level one parameters above.
* Start on line 3.

Activate A Manual Defrost

Press & hold the **Down** key and controller will go into defrost.

Error And Alarm Codes

E0	Ambinet probe 1 is faulty or disconnected
E1	Defrost probe 2 is faulty or disconnected
E2	Eeprom memory error. All outputs except the alarm are deactivated
E8	Man in cold room alarm. Check Digital input INP1
EC	Compressor protection alarm. Check digital INP1
ED	Door open alarm. Check digital INP2
EL	Low Temperature Alarm. Check Parameter A1
EH	High Temperature Alarm. Check Parameter A2



PH 0800 996 003



PEGO ECP200 Base 4 Cheat Sheet

FUN	Parameter Description	Min	Max	Units	Def
Level 1 Parameters (User level)					
r0	Control Differential Hysteresis	0.2	10	°C	2
d0	Interval between defrost	0	24	Hours	4
d2	End of defrost temperature	-35	45	°C	15
d3	Maximum duration of defrost	1	240	Min	25
d7	Dripping time after defrost (Defrost LED flashes when in dripping time)	0	10	Min	0
F5	Fan delay. Delay of evap fans after dripping time.	0	10	Min	0
A1	Low temperature alarm setpoint (Alarm LED & display temp flashes & buzzer)	-45	45	°C	-45
A2	High temperature alarm setpoint (Alarm LED & display temp flashes & buzzer)	-45	45	°C	45
tEu	Evaporator sensor temperature display.	Read only		°C	
Level 2 Parameters (Installer Level)					
AC	Status of contacts for door Switch digital input with door closed	0=NO	1=NC	---	NO
F3	Fans run with compressor - (0=Fans On continuously 1= on/off with compressor)	0	1	---	1
F4	Fans on during defrost	0=Yes	1=No	---	1
dE	Enable/Disable evaporator sensor (Change to 1 when using as a chiller controller)	1=disable	0=enable	---	0
d1	Defrost Type	0=element	1=hot gas	---	0
Ad	Serial address for Telenet	1	247	---	1
Ald	Alarm delay	1	240	Min	0
C1	Minimum time between Compressor stop and start.	0	15	Min	0
Cal	Temperature reading offset (Probe calibration)	-10	10	°C	0
PC	Status of contacts for compressor safety digital input	0=NO	1=NC	---	NO
doC	Time delay for activation of door switch. (Compressor will shutdown)	0	5	Min	0
tdo	Re-start of compressor after door open. Will keep signaling door open alarm.	0	240	Min	0
Fst	High temperature fan cut out (Probe 2,Evap sensor)	-45	45	°C	0
Fd	Differential for restarting fans after high temp cut out (Fst)	0	10	°C	2
LSE	Setpoint Lock. Minimum setpoint allowed	-45	45	°C	-45
HSE	Setpoint Lock. Maximum setpoint allowed	-45	45	°C	45
tA	Status of alarm relay contact	0=NO	1=NC	---	1
AU	Configuration of Alarm/Aux relay. See manual for instructions	0	7	---	0
stA	Temperature setting of alarm relay. (When parameter AU=2_	-45	45	°C	0
In1	Configuration of In1 input 0=Man in cool room 1= Compressor safety	0	1	---	0
PS	Password level of protection. See manual for instructions	0	3		0
PA	Select Password 0=Disabled	0	999		0
reL	Indicates software release.				

Modification Of The Set Point

Press & hold the **Set** key while using the **Up & Down** keys to select the desired setpoint. Release the **Set** key to return to normal operation. The Setpoint will be saved automatically

Modification Of Level One Parameters

Press & hold simultaneously the **Up & Down** Keys until **r0** is displayed. Use **Up & Down** keys to select next parameter and then press & hold **Set** *Use **Up & Down** keys to select desired value and then release **Set** the set key. Once parameter modification is completed press & hold simultaneously the **Up & Down** keys until the room temperature is displayed.

The controller will now return to normal operation saving the new settings.

Modification Of Level Two Parameters

Press & hold simultaneously the **Up & Down & Light** Keys until **AC** is displayed. Release the **Up & Down** Keys Selecting and changing a parameter is the same as the level one parameters above. * Start on line 3.

Activate A Manual Defrost

Press & hold the **Down** key and controller will go into defrost.

Alarm & Error Codes

- E0** Ambinet probe 1 is faulty or disconnected
- E1** Defrost probe 2 is faulty or disconnected
- E2** Eeprom memory error. All outputs except the alarm are deactivated
- E8** Man in cold room alarm. Check Digital input INP1
- EC** Compressor protection alarm. Check digital INP1
- ED** Door open alarm. Check digital INP2

Temperature Flashing on the display

High or low temperature alarm. Check Parameters A1 or A2