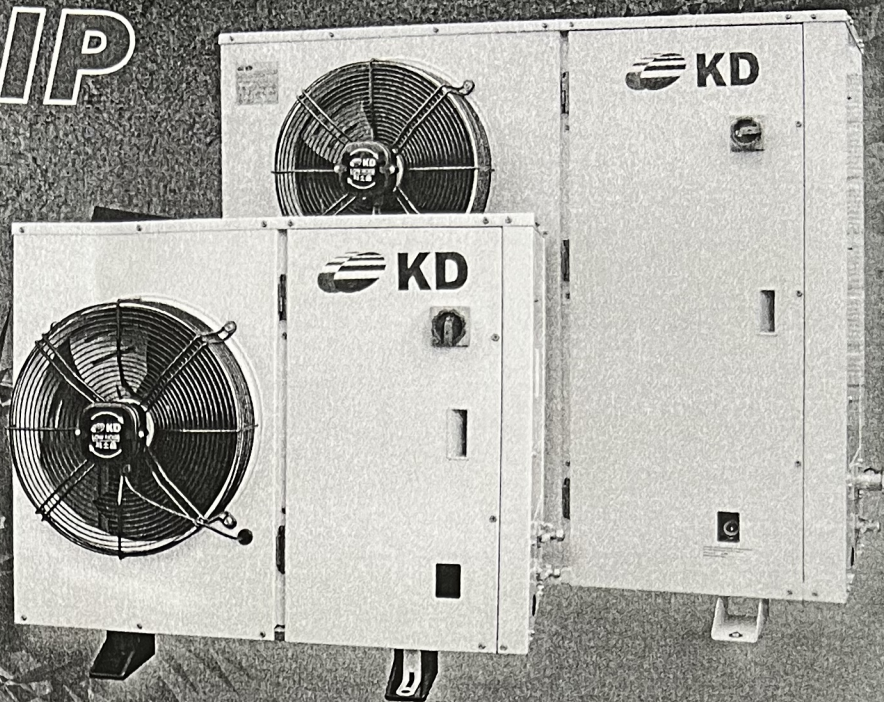




HERMETIC RECIP. CONDENSING UNITS

Duty range: 859 - 2,218 W @ -10°C

Refrigerants: R452A, R448A and R449A

Medium temperature -20 to +5 °C / Low temperature -20 to -45 °C

Product description:

KD Hermetic reciprocating condensing units are ideally suited for commercial applications, cellar cooling, petrol forecourts and freezer rooms.

Product features:

- High efficiency internally grooved copper tube.
- Corrosion resistant blue fin coating.
- Service valves for easy and quick installation.
- Liquid line drier and sight glass.
- Fan speed controller.
- Adjustable HP/LP switch.
- Liquid receiver with blanking plug, liquid shut off valve and charging port.
- Factory fitted oil separator included on low temp. models.
- Fully pre-wired and electrical isolator fitted.
- Fitted with Cubigel compressors (PAD) and Maneurop NTZ compressors (1PAD, 2PAD).

ORDER ONLINE

www.thermofrostcryo.co.uk

Exclusive distributor
tf Thermofrost Cryo

KD HERMETIC RECIPROCATING Condensing units

R452A MT Reciprocating -20°C to +5°C, also suitable for R448A/R449A*

Code	Model	Capacity (Watts) - Evaporating Temperature						Supply	Noise Level
		5	0	-5	-10	-15	-20		
KDU021	PAD005M1	1372	1271	1040	859	701	564	230.1	33
KDU031	PAD008M1	2002	1691	1442	1191	987	805	230.1	33
KDU036	PAD010M1	2486	2127	1767	1475	1215	983	230.1	33
KDU041	PAD012M1	3736	3159	2689	2218	1827	1473	230.1	33

*There is a capacity loss of when using R449A with these units, this is around 10-12% at -10°C.

R452A LT Reciprocating -20°C to -45°C

Code	Model	Capacity (Watts) - Evaporating Temperature						Supply	Noise Level
		-20	-25	-30	-35	-40	-45		
KDU411	PAD016L1	1888	1528	1207	931	688	491	230.1	33
KDU431	1PAD018L1	2406	1876	1401	1007	675	403	230.1	38
KDU433	1PAD018L3	2406	1876	1401	1007	675	403	400.3	38
KDU436	1PAD023L1	3494	2811	2197	1640	1182	793	230.1	40
KDU438	1PAD023L3	3494	2811	2197	1640	1182	793	400.3	40

Please note that the above hermetic low temperature units are not approved for use with R407A/R407F/R448A/R449A.

Electrical data

Model	Compressor model*	Current		Power supply voltage
		LRA	FLA	
PAD005M1	MLY90RA	18.4	3.85	230.1.50
PAD008M1	MPT14RA	23.5	5.74	230.1.50
PAD010M1	MX18TB	23.4	5.58	230.1.50
PAD012M1	MS26TB-T	34.6	7.71	230.1.50
PAD016L1	MS34FB-T	40	8.85	230.1.50
1PAD018L1	NTZ048-5	37	11.00	230.1.50
1PAD018L3	NTZ048-4	16	4.80	400.3.50
1PAD023L1	NTZ068-5	53	17.00	230.1.50
1PAD023L3	NTZ068-4	25	8.40	400.3.50

Nominal data

Model	Dimensions (mm)			Weight (kg)	Connections (inch)*		Receiver Volume (l)	No of fans & wattage	Noise level dB (a)
	Width	Depth	Height		Suct	Liq			
PAD005M1	791	343	655	55	3/8	3/8	1.9	1 x 16	33
PAD008M1	791	343	655	55	1/2	3/8	1.9	1 x 16	33
PAD010M1	831	343	655	56	1/2	3/8	2.3	1 x 25	33
PAD012M1	881	373	705	68	5/8	3/8	2.3	1 x 40	33
PAD016L1	881	373	705	68	1/2	3/8	2.3	1 x 40	33
1PAD018L1	1000	400	815	89	5/8	3/8	2.8	1 x 110	38
1PAD018L3	1000	400	815	89	5/8	3/8	2.8	1 x 110	38
1PAD023L1	1000	400	815	94	5/8	3/8	2.8	1 x 110	40
1PAD023L3	1000	400	815	94	5/8	3/8	2.8	1 x 110	40

Technical Data Sheet

ENGINEERING
TOMORROW



EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	4.220,8136392240	801,5486945211	4,2920427539	81,678773219533
2	127,1818913887	1,5668344883	0,0061832816	2,8345588078294
3	-45,9665169863	6,7171431916	0,0335289331	-0,35204857527005
4	0,7093589286	-0,0475990012	0,0001456453	0,032939649402571
5	-1,1394065704	0,2975172059	0,0014519012	-0,0043231014209744

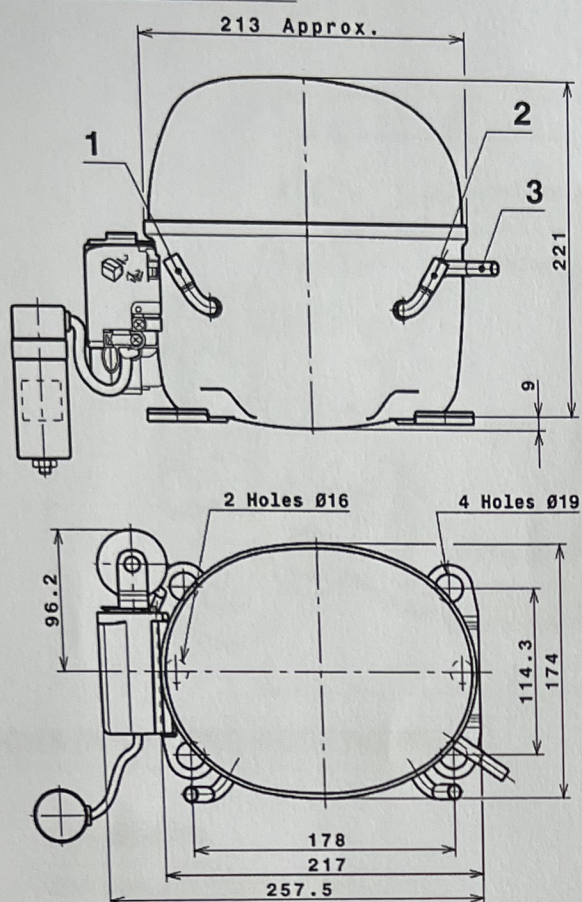
Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

ENGINEERING
TOMORROW



COMPRESSOR DIMENSIONS

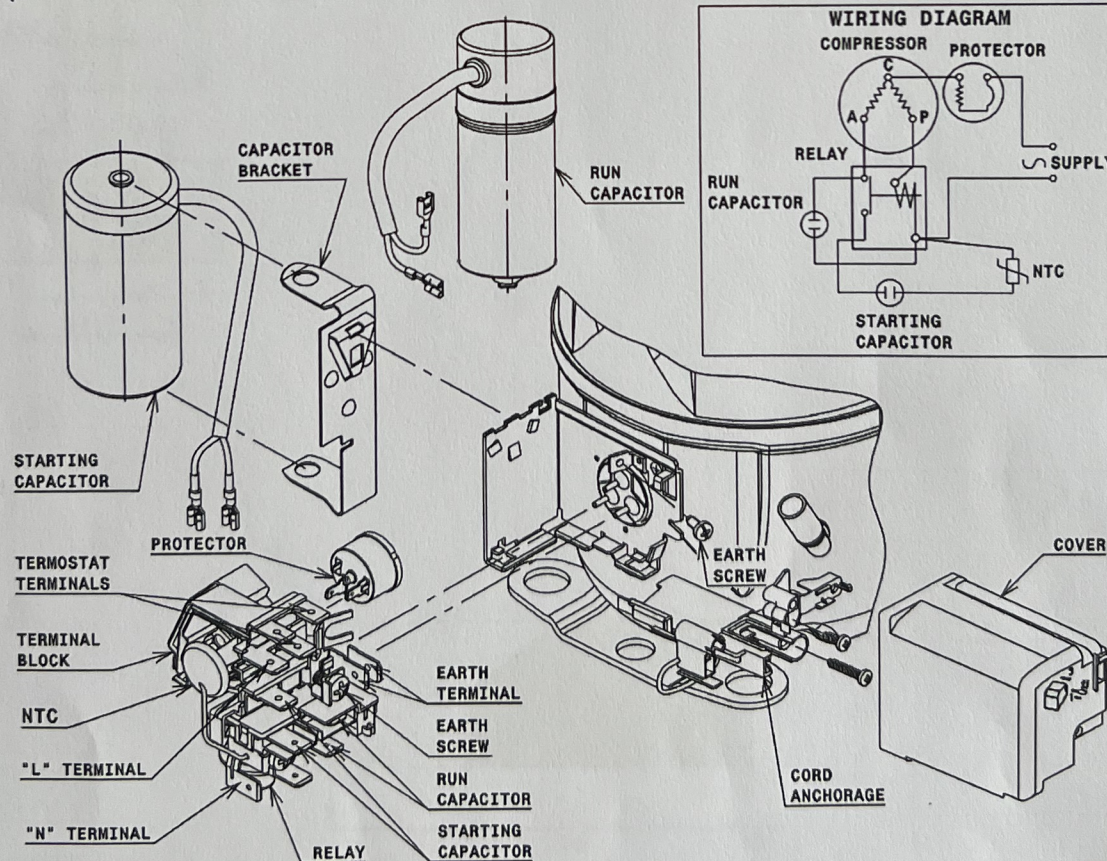


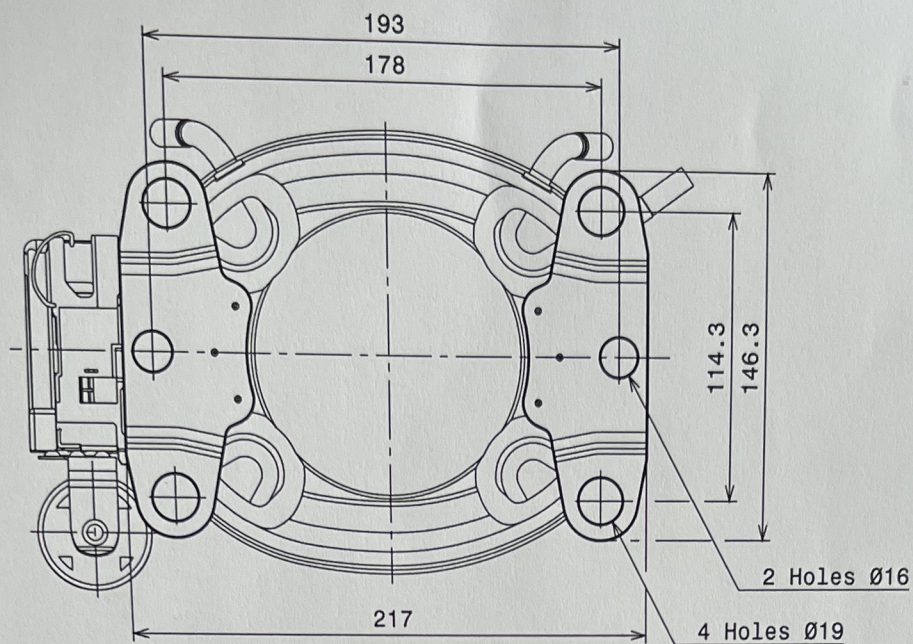
DESIGNATION INTERNAL DIAM.

1	Service	9,7 mm
2	Suction	9,7 mm
3	Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (X range)

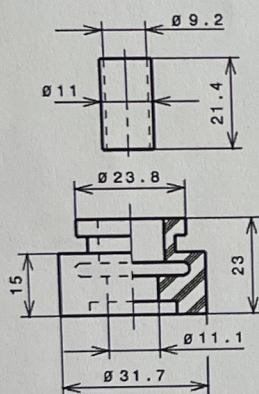




SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (178x114.3 net)



SOA

SOA R404A HMBP

