

**COOLING
IS IN OUR
DNA**



FREEZE IT !

Refrigeration Units

Refrigeration Unit

Polfrost condensing units are efficiently sized and can be constructed according to the technical specifications and temperature range requirements. These condensers are built using superior electrical components and proven designs. Each unit undergoes comprehensive performance and quality check before commissioning. This is why our clients trust us to offer a vast range of turnkey solutions across cooling and condenser requirements.

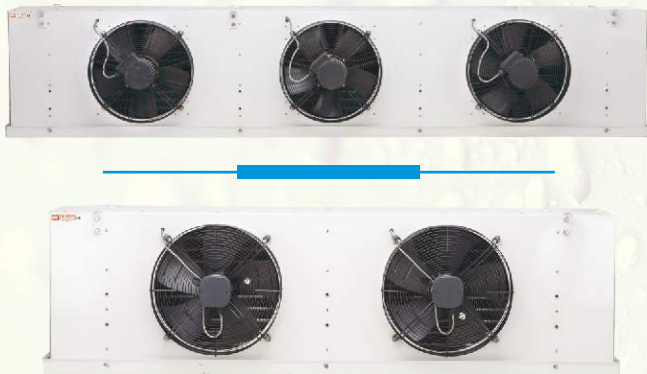


Evaporating units description:

The heart of the refrigeration system is a high quality, efficient and effective evaporating unit comprising of:

- **An evaporator coil**
- **Sheet metal components**
- **Fans**
- **Expansion device**
- **Defrost apparatus**

The range is very exhaustive consisting of capacities from 25kW to 65kW & temperatures ranging from 22°C to -55°C.



Salient Features:

- Superior quality cooling coil
 - Proper sizing for efficient cooling
 - Proper fin spacing
 - Imported IG-CU pipes with proper joining and brazing system
 - Fans with required CFM, premium and safety – inbuilt features
 - Defrosting arrangements: 0°C with no defrost required except air defrost with thermostat; with electric and hot gas defrost systems in negative temperature applications.
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Condensing units description:

Proper selection of components, condensor coils, fans, safety devices and protections are the salient features of Polfrost condensing units. The condensing units suitable for various temperature ranges and construction accordingly are the main feature of condensing unit, which otherwise people compare with air conditioning condensers.

Features:

- Proper sizing of condensing units
- Proper fin spacing, airflow, CFM, cooling to the compressor are the principle features of the Polfrost Condensing units.
- Superior quality in-house sheet metal from GI sheets and powder coated components
- Service valves, accumulators, liquid receivers, suction accumulators, driers and oil separators if required, form the main parts of the condensing units.
- Safety & electrical protections, sophisticated wiring are the primary features of the condensing units.



Polfrost Monoblock

Cooling units description:

Introducing Polfrost Cooling Units manufactured for use in coldrooms consist of a condenser, an evaporator, a electric control panel and a electric control board. Polfrost offers a wide product an extensive practical field experienced range to meet different types of a coldrooms needs and a performance guarantee based on strong technical inputs & world class materials. Polfrost cooling units are easy and quick to install. High technology and quality ensure safety of use. Polfrost products are continuously improved as new technologies and material are introduced. Polfrost cooling units have a built-in warming system which automatically operates in case of any power or gas failure. Operating the units is vary easy, thanks to the simple-designed control panels. With just a little care and maintenance, Polfrost refrigeration units could work efficiently and problem free for years with minimum energy consumption.

General Features: Specially designed evaporator and condensor to be used in smaller spaces, easy, quick and cheap installation, Adjustable party wall thickness, Defrost water drainage and evaporation system, Easy access to control board, CNC-processed body with electrostatic oven dried paint.

Technical Features

SERIES - A (+12 / +10°C)	MODEL	TON (NOMINAL)	m ³	WATT	R
	PF-DM 050	½	8	1100	R22
	PF-DM 100	1	20	2290	R22
	PF-DM 150	1.5	41	3530	R22
	PF-DM 200	2	50	3900	R22
	PF-DM 300	3	75	6950	R22



Economic, Indian- Emerson / Tecumseh Compressor & Components



SERIES - S 0°C / -10°C	MODEL	HP	m ³	WATT	R
	PF-CM 050	½	3	660	R404A
	PF-CM 100	1	9	1370	R404A
	PF-CM 150	1.5	19	2100	R404A
	PF-CM 200	2	33	2450	R404A
	PF-CM 250	2.5	43	3300	R404A

Negative (-) Temperature Units with imported compressors & World Class Technology

The above recommendation are based on Ambient Temp. 350 C, incoming product- pre Cooled Average Loading of 150-175 Kg/m3.

For more Details & Technical Information please visit our website or feel free to contact us.

Polfroost Idu & Cdu Technical Spec: +ve series

Package Power Requirement	S1TP	S2TP	S3TP	S4TP	S5TP
V/ph/Hz	240-1-50	400-3-50	400-3-50	400-3-50	400-3-50
Kw	1.74	2.48	3.82	5.58	5.98
Compressor	EMERSON	EMERSON	EMERSON	EMERSON	EMERSON
Displacement (m³/h)	5.2	9	12.5	17.1	22.1
Refrigerant	R 404	R 404	R 404	R 404	R 404
CDU Details					
MODEL NO .	RCS1A	RCS2	RCS3	RCS4	RCS5
L	750	750	900	900	950
H	540	540	700	700	750
W	550	550	610	610	670
Row	2 Rows	3 Rows	3 Rows	4 Rows	4 Rows
Fan n x Ø mm	1 x 350 mm	1 x 350 mm	1 x 450 mm	1 x 450 mm	2 x 450 mm
IDU Details					
MODEL NO .	FES1	2FES2	2FES3	2FES4	2FES5
L	865	1245	1325	1325	1425
H	425	420	585	585	595
W	405	405	500	500	500
Row	3 Rows	4 Rows	3 Rows	4 Rows	4 Rows
Fan n x Ø mm	1 x 300 mm	2 x 300 mm	2 x 450 mm	2 x 450 mm	2 x 500 mm

Polifrost Idu & Cdu Technical Subzero series

Package	PKP	PKP1	PKP1A	PKP1B	PKP2	PKP2A	PKP3	PKP3A	PKP5A	PKP5
Power Requirement	SCI 04-11-7 E.D	SCI 04-12-7 E.D	SCI 06-12-7 E.D	SCI 04-13-7 E.D	SCI 06-13-7 E.D	SCI 26-42-7 E.D	SCI 24-43-7 E.D	SCI 26-43-7 E.D	SCI 36-A3-7 E.D	SCI 46-B2-7 E.D
V/ph/Hz	400-3-50 (1.8 k.w)	400-3-50 (3.62 K.W)	400-3-50 (4.59 k.w)	400-3-50 (5.44 k.W)	400-3-50 (6.86 k.w)	400-3-50 (8.81 k.w)	400-3-50 (10.09 k.w)	400-3-50 (13.22 k.w.)	400-3-50 (18.39 k.w)	400-3-50 (17.77 k.w)
Compressor	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make	Bitzer / Dorin Make
Displacement (m³/h)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Defrost type										
ED										
Refrigerant	R 404 a	R 404 a	R 404 a	R 404 a	R 404 a	R 404 a	R 404 a	R 404 a	R 404 a	R 404 a
CDU Details										
MODEL NO.	RCN	RCN1	RCS1A	RCM1B	RCN2	RCN2A	RCN3	RCN3A	RCN5A	RCN5
L	558	685	914	914	914	1219	1219	1524		
H	533	736	762	762	762	762	914	914		
W										
Row	3	3	4	4	6	6	6	6		
Fan n x Ø mm	1 X 350 mm	1 X 450 mm	2 X 350 mm	2 X 400 mm	2 X 400 mm	2 X 450 mm	2 X 450 mm	2 X 450 mm		
IDU Details										
MODEL NO.	SCI 04-11-7 E.D	SCI 04-12-7 E.D	SCI 06-12-7 E.D	SCI 04-13-7 E.D	SCI 06-13-7 E.D	SCI 26-42-7 E.D	SCI 24-43-7 E.D	SCI 26-43-7 E.D	SCI 36-A3-7 E.D	SCI 46-B2-7 E.D
L	978	1578	1578	2178	2178	1880	2642	2642	3078	2378
H	520	520	520	520	520	595	600	600	685	753
W	420	474	474	420	474	484	484	484	518	564
Row	4	4	6	4	6	6	4	6	6	6
Fan n x Ø mm	1 x 300 mm	2 x 300 mm	2 x 300 mm	3 x 300 mm	3 x 300 mm	2 x 400 mm	3 x 400 mm	3 x 400 mm	3 x 450 mm	2 x 500 mm
CFM (m³ x t)	1074	2148	2148	3221	3221	4720	7080	7080	9027	9086



REFRIGERATED LAB EQUIPMENT:

- Freezers -20°C to -86°C for Labs – Pathology, Medicine, Life Science, Pharma.
- Circulating Baths - Cryostat
- Blood Bank Cold Chain : -14°C, -30°C, -45°C to -86°C.
- Platelet Agitator Incubator, Cryobath, Centrifuge, Bag sealer, Blood Bag Collector, Vaccine carrier.

COOL & COLD ROOMS:

- +22°C to + 4°C, -10°C, -25°C, -45°C, -70°C. Digital Microprocessor / PLC Controls.

INDUSTRIAL REFRIGERATION:

- Chillers : 5 to 5000 Liters; 22°C to -70°C; Process & Industrial Circulation, Digital Microprocessor / PLC Controls.
- Unit Coolers, Condensing Units.
- PUF / Insulation Panels.
- Door Systems.
- Tailor made refrigeration & HVAC products.

Contact us:



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