

Sigilus A2L INVERTER | Condensing units



Condensing units for positive and negative temperature refrigeration, featuring a silent design with an INVERTER rotary compressor, acoustic insulation, and a low-speed electronic axial fan motor, suitable for operation with A2L low-GWP refrigerant.

ESPECIFICACIONES TÉCNICAS

INVERTER rotary compressor.	■
High and low pressure switches.	■
Liquid receiver and sight gauge.	■
Welded connections, including shut-off valves.	■
Oil separator.	■
Electronic condensation fan. Proportional condensation control.	■
Magnetic thermal protection.	■
Crankcase heater.	■
Conducted safety valve.	■
Condenser fan with increased airflow up to 80 Pa: Series 1 with one fan of Ø 350 mm. Series 1 and 2 with one fan of Ø 450 mm. Series 3 and 4 with two fans of Ø 450 mm.	□ □ □
Protective grille for external coil.	□
Polyurethane condenser coating.	□
Voltage and phase failure control.	□
Packaging for maritime transport.	□

■ As standard □ Optional

INVERTER rotary compressor

The INVERTER rotary compressor offers high energy efficiency by adjusting its speed to actual demand, ensures stable and quiet operation thanks to its continuous compression design, and maintains a wide operating range with constant capacity in the face of load or temperature variations.

Proportional condensation control

Sigilus condensing units incorporate proportional condensation control by speed variation for prolonged operation at low outside temperatures.

⁽¹⁾ Conditions according to UNE-EN13215 standard: Outdoor temperature 32 °C, average evaporation temperature of -10 °C (MT) and -35 °C (BT), suction temperature 20 °C.

⁽²⁾ Conditions according to standard UNE-EN13215: Outdoor temperature 32 °C, average evaporation temperature of -10 °C (MT) and -35 °C (BT), SH=10 K.

⁽³⁾ COP/SEPR: Coefficient of performance (COP) and seasonal performance factor (SEPR) according to ErP Directive 2015/1095/EU.

⁽⁴⁾ Sound pressure level in free field, with directivity 1, measured at 10 m from the source (non-binding value calculated from sound power).

400V 3N ~ 50Hz | Positive temperature | INVERTER rotary compressor | R-455A

Refrigerant	Compressor	Series / Model	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) ⁽¹⁾ -10 °C	Cooling capacity (W) ⁽²⁾ Average evaporating temperature				Input power (W)	(COP) SEPR ⁽³⁾	Max. current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) ⁽⁴⁾	Price (€)
						-15 °C	-10 °C	-5 °C	0 °C									
R-455A	INVERTER rotary	MDF-PN-2024A	400V 3N ~ 50 Hz	2	6 530	5 400	6 317	7 306	8 398	2 283	4.35	5,3	Ø 450	5 400	3/8" - 7/8"	69	39	
		MDF-PN-2032A	400V 3N ~ 50 Hz	3	7 530	6 169	7 250	8 450	9 744	2 844	4.72	6,3	Ø 450	5 400	3/8" - 7/8"	71	39	
		MDF-PN-3046A	400V 3N ~ 50 Hz	5	10 230	8 246	10 162	12 313	14 668	2 960	3.34	18,3	2x Ø 450	10 000	3/8" - 7/8"	105	42	
		MDF-PN-4055A	400V 3N ~ 50 Hz	6	12 300	10 128	12 224	14 569	17 149	5 371	3.35	23,1	2x Ø 450	10 500	1/2" - 1 1/8"	119	42	
		MDF-PN-4070A	400V 3N ~ 50 Hz	8	15 200	12 232	14 995	18 032	21 199	5 792	3.36	24,7	2x Ø 450	10 500	1/2" - 1 1/8"	122	42	

400V 3N ~ 50Hz | Negative temperature | INVERTER rotary compressor | R-455A

Refrigerant	Compressor	Series / Model	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) ⁽¹⁾ -35 °C	Cooling capacity (W) ⁽²⁾ Average evaporating temperature				Input power (W)	(COP) SEPR ⁽³⁾	Max. current (A)	Fan Ø (mm)	Conden. air flow (m³/h)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) ⁽⁴⁾	Price (€)
						-35 °C	-30 °C	-25 °C										
R-455A	INVERTER rotary	BDF-PN-1024A	400V 3N ~ 50 Hz	2	2 330	2 157	2 807	3 447	1 912	2.37	4,2	Ø 350	2 500	1/4" - 7/8"	69	39		
		BDF-PN-1032A	400V 3N ~ 50 Hz	3	2 560	2 332	3 221	3 842	2 364	2.79	5,2	Ø 350	2 500	1/4" - 7/8"	71	39		
		BDF-PN-2046A	400V 3N ~ 50 Hz	5	3 250	3 155	4 071	5 219	2 322	1.58	16,5	Ø 450	5 400	1/4" - 7/8"	79	39		
		BDF-PN-3055A	400V 3N ~ 50 Hz	6	4 380	4 280	5 347	6 675	4 592	1.46	23,2	2x Ø 450	10 000	3/8" - 1 1/8"	108	42		
		BDF-PN-3070A	400V 3N ~ 50 Hz	8	5 000	4 867	6 113	7 767	4 762	1.50	24,7	2x Ø 450	10 000	3/8" - 1 1/8"	111	42		