

Sigilus A2L | Condensing units



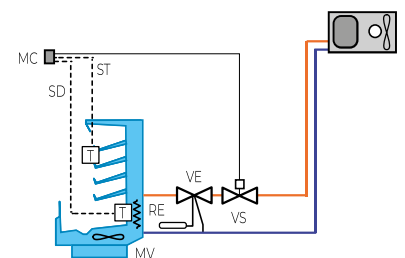
Condensing units for positive and negative temperature refrigeration, in silent construction with hermetic reciprocating or scroll compressor, with noise insulation, and low-speed electronic axial fan motor, for use with A2L refrigerant, with low GWP.

FEATURES

Hermetic reciprocating or scroll compressor.	■
High and low pressure switches.	■
Liquid receiver.	■
Flare connections (up to 5/8" suction) and service valves.	■
Weld connections (from 7/8" suction), including shut-off valves.	■
Magnetic thermal protection.	■
Electronic condensation fan. Proportional condensation control.	■
Crankcase heater.	■
Conducted safety valve.	■
Sight gauge.	■
Change to 400V 3N 50Hz power supply.	□
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.	□ □ □
Multifunction electronic regulation with remote control and digital condensation control.	□
Master-slave (alternative + simultaneous).	□
Larger multifunction control.	□
Protective grille for external coil.	□
Condensation control for very low ambient temperatures.	□
Voltage control (single-phase models).	□
Oil separator.	□
Polyurethane condenser coating.	□
Voltage and phase failure control (three-phase).	□
Packaging for maritime transport.	□

■ As standard □ Optional

Installation without electrical board



MC: CONTROL PAD
MV: MOTOR FAN
RE: DEFROST HEATER
ST: THERMOSTAT PROBE
SD: DEFROST PROBE
VE: EXPANSION VALVE
VS: SOLENOID VALVE

Proportional condensation control

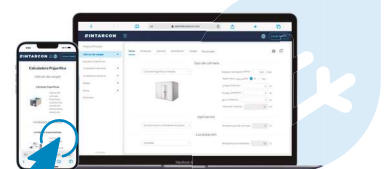
Sigilus condensing units incorporate proportional condensation control by speed variation for prolonged running times at low ambient temperature.

Noise insulation

Sigilus condensing units incorporate noise insulation as standard:

- ▶ Insulated compressor compartment separated from air flow.
- ▶ Acoustic jacket in scroll compressor.
- ▶ Low-noise and low-speed fans, mounted on shock absorbers.

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REFRIGERATION CALCULATION SOFTWARE



230V I+N ~ 50Hz / 400V 3N ~ 50Hz | [Positive temperature](#) | Hermetic reciprocating or scroll compressor | [R-455A](#)

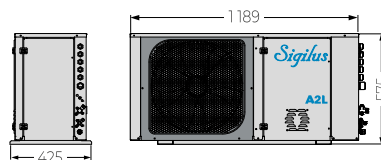
Refrigerant	Compressor	Series / Model	Power supply	Compressor (HP)	Cooling capacity EN13215 (W) ⁽¹⁾	Cooling capacity (W) ⁽²⁾ Average evaporating temperature				Input power (W)	(COP) SEPR ⁽³⁾	Max. current (A)	Fan Ø (mm)	Condens. air flow (m³/h)	Liq-Gas cooling connection	Weight (kg)	SPL dB(A) ⁽⁴⁾	Price (€)
						-15 °C	-10 °C	-5 °C	0 °C									
R-455A	Hermetic reciprocating	MDF-NN-1009A	230V I+N ~ 50 Hz	1/3	833	642	801	991	1 215	483	(1.73)	5.3	Ø 350	2 300	1/4"-3/8"	65	34	
		MDF-NN-1012A	230V I+N ~ 50 Hz	1/2	1 117	861	1 068	1 307	1 588	651	(1.75)	6.3	Ø 350	2 300	1/4"-3/8"	65	35	
		MDF-NN-1018A	230V I+N ~ 50 Hz	3/4	1 600	1 178	1 509	1 896	2 348	841	(1.94)	9.1	Ø 350	2 500	1/4"-1/2"	73	35	
		MDF-NN-1026A	230V I+N ~ 50 Hz	1 1/2	2 214	1 616	2 081	2 622	3 231	1 110	(2.03)	12.7	Ø 350	2 500	1/4"-1/2"	74	35	
		MDF-NN-1034A	230V I+N ~ 50 Hz *	1 1/2	2 687	2 008	2 548	3 160	3 864	1 388	(1.96)	17.5	Ø 350	2 500	1/4"-1/2"	78	37	
		MDF-NN-1040A	230V I+N ~ 50 Hz *	2	3 419	2 463	3 204	4 040	5 008	1 528	(2.27)	15.7	Ø 450	4 100	3/8"-5/8"	86	40	
	Scroll	MDF-SN-1034A	400V 3N ~ 50 Hz	2	3 812	2 842	3 442	4 178	5 050	1 862	(2.16)	5.5	Ø 450	5 000	1/4"-5/8"	85	39	
		MDF-SN-2044A	400V 3N ~ 50 Hz	2 1/2	4 978	3 675	4 509	5 457	6 529	2 297	(2.26)	10.7	Ø 450	5 400	3/8"-5/8"	87	39	
		MDF-SN-2058A	400V 3N ~ 50 Hz	3 1/2	5 712	4 025	4 956	6 084	7 371	2 488	(2.37)	12.8	Ø 450	5 400	3/8"-5/8"	92	39	
		MDF-SN-3084A	400V 3N ~ 50 Hz	5	7 940	6 303	7 595	9 159	10 980	3 603	3.80	18.8	2x Ø 450	10 000	3/8"-7/8"	113	39	
		MDF-SN-4110A	400V 3N ~ 50 Hz	7	11 010	8 629	10 556	12 741	15 154	4 754	3.69	22.9	2x Ø 450	10 500	1/2"-1 1/8"	124	42	
		MDF-SN-4126A	400V 3N ~ 50 Hz	7 1/2	14 880	10 710	13 200	15 730	18 870	6 515	3.70	23.4	2x Ø 450	10 500	1/2"-1 1/8"	135	43	

230V I+N ~ 50Hz / 400V 3N ~ 50Hz | [Negative temperature](#) | Hermetic reciprocating or scroll compressor | [R-455A](#)

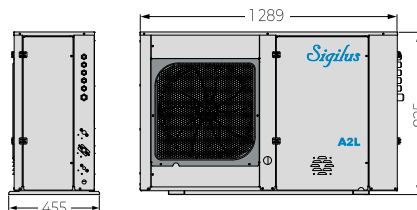
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						-35 °C	-30 °C	-25 °C									
R-455A	H. Recipro.	BDF-NN-1026A	230V I+N ~ 50 Hz	1 1/4	553	468	669	898	733	(0.88)	8.9	Ø 350	2 300	1/4"-3/8"	63	34	
		BDF-NN-1034A	230V I+N ~ 50 Hz	1 1/2	768	717	993	1 229	944	(0.94)	10.7	Ø 350	2 500	1/4"-1/2"	71	35	
		BDF-NN-1054A	230V I+N ~ 50 Hz	2	1 128	1 014	1 473	2 024	1 255	(1.05)	16.9	Ø 350	2 500	1/4"-1/2"	79	41	
		BDF-NN-1068A	400V 3N ~ 50 Hz *	3	1 666	1 539	2 127	2 850	1 768	(1.11)	8.7	Ø 450	4 100	3/8"-5/8"	83	43	
	Scroll	BDF-SN-2067A	400V 3N ~ 50 Hz	4	2 160	1 998	2 628	3 351	2 671	(1.00)	13.2	Ø 450	5 000	1/4"-7/8"	100	41	
		BDF-SN-2084A	400V 3N ~ 50 Hz	5	2 780	2 554	3 297	4 124	3 206	1.44	16.8	Ø 450	5 400	1/4"-7/8"	102	42	
		BDF-SN-2120A	400V 3N ~ 50 Hz	8	4 000	3 637	4 552	5 604	4 707	1.44	22.8	Ø 450	5 400	3/8"-1 1/8"	105	45	
		BDF-SN-3169A	400V 3N ~ 50 Hz	10	5 700	5 330	6 591	8 126	6 637	1.44	29.6	2x Ø 450	10 000	3/8"-1 1/8"	131	46	

DIMENSIONS

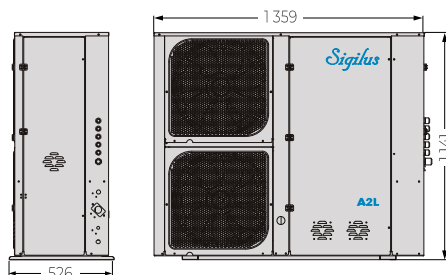
1 series



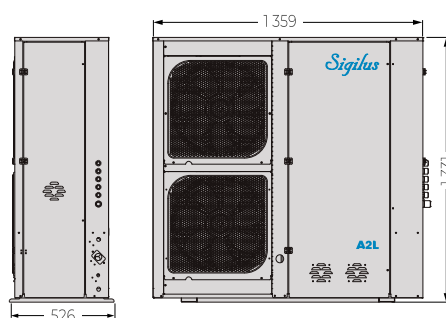
2 series



3 series



4 series



Dimensions in mm.

⁽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).