INTARCON

Sigilus

- ❄ Factory-tested systems with no need for on-site tests.
- ❄ Low-noise condensing unit.
- ❄ Tropicalised design for high ambient temperature up to 50 °C.
- ❄ Built-in thermostatic expansion valve.
- ❄ Proportional control of condensing pressure (optional in series NG and NY).
- ❄ Refrigerant preloaded.
- ❄ Units exempt from leak checks.

Description

Split systems for small and medium size cold rooms at positive and negative temperature, composed of a low-noise condensing unit and a slim-type, cubic-type or double flow evaporating unit.

Features

- 230 V-I-50 Hz or 400 V-III-50 Hz power supply.
- Minimal R-134a / R-449A refrigerant load.
- Hermetic reciprocating compressor with double noise insulation, discharge muffler (for models 1 HP or more) and crankcase heater.
- Large surface L-shape condensing coil (straight for series 0 and 1).
- Low-speed and low-noise condensing motor fans.
- Proportional control of condensing pressure (as option for -N version).
- High and low pressure switches.
- Liquid receiver with refrigerant preload for 10 m of pipe.
- Evaporating unit: slim-type (-N version) or cubic-type (-Q version).
- Built-in thermostatic expansion and solenoid valves.
- Electrical heater defrost (except ASF series).
- Stainless steel drain pan.
- Flare-type connections (up to 1/2"-3/4") and service valves.
- MCB protection.
- Multifunctional electronic control with remote keyboard.
- Liquid injection system for negative temperature models with R-449A.

SF-N series

Split with Sigilus condensing unit and slim-type evaporator.

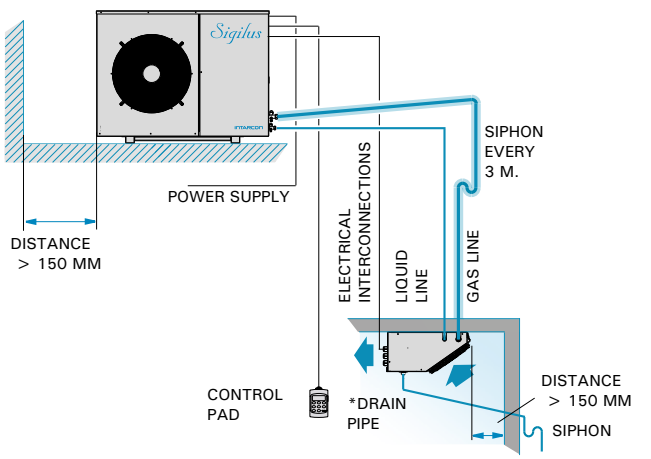
SF-Q series

Split with Sigilus condensing unit and cubic evaporator.

SF-D series

Split with Sigilus condensing unit and double-flow evaporator.

Installation scheme



Maximum vertical distance between units of 15 metres if the condensing unit is placed at a higher level than the evaporating unit, and 6 metres otherwise.
* 20 % minimum slope for drain tube for negative temperature models.

Control pad

Sigilus split systems feature XM670K electronic control as standard.

- Remote control keyboard with digital display.
- Temperature control with maximum and minimum temperature value recording.
- Fast-freezing function and night operation mode.

Triple noise insulation

Sigilus units feature triple noise insulation:

- Noise insulated compressor compartment, separated from the airflow.
- Hermetic reciprocating compressor with insulation cover (three-phase models) and discharge muffler.
- Low-noise and low-speed fan on shock absorbing structure.

Proportional control of condensing pressure

Proportional control of condensing pressure, for prolonged operation at under low ambient temperature, standard for Sigilus series (option for -N Versions).

Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m (hoses included):

Fan voltage	230 V-I-50 Hz	400 V-III-50 Hz
Fan series	0 - 3	3 - 4
Probes	4 x 1 mm²	
Maneuver	2 x 1.5 mm²	
Defrost	2 x 1.5 mm² + T	4 x 1.5 mm² + T
Thermostat	2 x 1 mm²	
Switch door*	2 x 1 mm² (+ 2 x 1 mm² in NT)	
Cold room light*	2 x 1 mm² + T	

* Optional not included. To know electrical interconnections of each model: see technical manual.

MSF / BSF series

230 V-I-50 Hz / 400 V-III-50 Hz | Positive temperature | R-134a / R-449A

	Series / Model	Compressor HP	Compressor Power supply	Cooling capacity according to cold room temperature (1) -5 °C W	-5 °C m³	0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (kW)	Max. current (A)	Fan evap.	Evap. airflow. (m³/h)	Conden. airflow (m³/h)	Liq-Gas Cooling Connection	Refrig. load (kg) (2)	Weight (kg)	S.P.L. dB(A) (3)	Price (€)
R-134a	**MSF-NY-00 010**	3/8	230 V-I	497	2.9	637	5.0	788	8.8	945	13	0.41	4.2	1x Ø 172	300	350	1/4"-3/8"	< 1.5	46+12	20	
	MSF-NY-00 015	1/2	230 V-I	653	3.6	832	7.4	1 004	11	1 188	16	0.51	5.2	1x Ø1 72	300	350	1/4"-3/8"	< 1.5	49+12	19	
	MSF-NY-11 015	1/2	230 V-I	805	4.7	1 031	10	1 296	14	1 582	28	0.56	5.6	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	57+16	19	
	MSF-NY-11 026	3/4	230 V-I	1 076	9.0	1 412	16	1 738	25	2 084	40	0.80	9.2	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	65+16	22	
	MSF-NY-12 033	1	230 V-I	1 475	13	1 859	20	2 289	35	2 741	57	1.02	9.7	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.0	67+24	22	
	MSF-NY-12 053	1 1/2	230 V-I *	1 811	22	2 347	33	2 872	50	3 439	79	1.42	12.3	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.0	77+24	27	
	MSF-NY-13 074	2	230 V-I *	2 772	30	3 528	50	4 363	76	5 229	125	1.94	17.2	3x Ø 254	1 725	1 700	1/4"-3/4"	< 3.5	79+45	28	
	MSF-NY-23 086	4	400 V-III	3 355	39	4 384	65	5 376	108	6 437	160	2.18	14.1	3x Ø 254	1 725	3 700	3/8"-7/8"	< 4.5	96+45	39	
	MSF-NY-24 108	5	400 V-III	4 347	58	5 649	90	6 920	138	8 316	220	2.83	18.2	4x Ø 300	3 100	3 700	3/8"-7/8"	< 5.0	98+45	37	
	MSF-NY-24 136	6 1/2	400 V-III	5 486	75	6 899	110	8 363	150	9 949	280	3.55	22.2	4x Ø 300	3 100	3 700	3/8"-1 1/8"	< 5.5	101+55	36	
	MSF-NY-34 171	8	400 V-III	6 080	88	7 613	130	9 240	200	10 978	350	4.16	25.2	4x Ø 300	3 100	4 000	3/8"-1 1/8"	< 5.5	140+55	36	
R-449A	**MSF-NG-0 008**	1/3	230 V-I	611	2.9	759	5.0	915	8.8	1 103	13	0.43	5.1	1x Ø 172	300	350	1/4"-3/8"	< 1.5	47+12	20	
	MSF-NG-0 010	3/8	230 V-I	739	3.6	894	6.1	1 056	10	1 254	15	0.53	4.8	1x Ø 172	300	350	1/4"-3/8"	< 1.5	49+12	21	
	MSF-NG-0 012	1/2	230 V-I	818	4.7	981	7.4	1 153	12	1 358	21	0.63	5.6	1x Ø 172	300	350	1/4"-3/8"	< 1.5	50+12	20	
	MSF-NG-1 014	1/2	230 V-I	882	8.0	1 095	12	1 322	20	1 585	34	0.77	6.5	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	59+16	20	
	MSF-NG-1 016	5/8	230 V-I	972	10	1 210	15	1 462	24	1 759	40	0.81	7.4	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	67+16	23	
	MSF-NG-1 018	3/4	230 V-I	1 397	12	1 649	19	1 915	28	2 245	45	0.94	8.7	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	68+16	24	
	MSF-NG-2 024	1	230 V-I	1 513	14	1 958	22	2 420	35	2 958	57	1.26	11.1	2x Ø 200	1 050	1 700	1/4"-1/2"	< 2.5	82+24	24	
	MSF-NG-2 026	1 1/4	230 V-I *	1 712	16	2 147	25	2 611	39	3 157	64	1.44	11.5	2x Ø 200	1 050	1 700	1/4"-1/2"	< 2.5	83+24	27	
	MSF-NG-2 034	1 1/2	230 V-I *	2 120	21	2 606	33	3 117	50	3 730	79	1.83	16.1	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.5	83+24	29	
	MSF-NG-3 038	1 3/4	400 V-III	2 770	29	3 394	46	4 078	71	4 894	112	1.89	8.1	3x Ø 254	1 725	3 200	1/4"-5/8"	< 3.0	82+45	30	
	MSF-NG-4 048	2	400 V-III	3 368	39	4 231	62	5 158	92	6 225	145	2.34	9.6	3x Ø 254	1 725	3 700	3/8"-3/4"	< 4.5	84+45	30	
	MSF-NG-4 054	2 1/2	400 V-III	3 792	47	4 671	70	5 640	105	6 780	160	2.54	10.1	3x Ø 254	1 725	3 700	3/8"-3/4"	< 5.5	85+45	30	

230 V-I-50 Hz / 400 V-III-50 Hz | Negative temperature | R-449A

	Series / Model	Compressor HP	Compressor Power supply	Cooling capacity according to cold room temperature (1) -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (kW)	Max. current (A)	Fan evap.	Evap. airflow. (m³/h)	Conden. airflow (m³/h)	Liq-Gas Cooling Connection	Refrig. load (kg) (2)	Weight (kg)	S.P.L. dB(A) (3)	Price (€)
R-449A	**BSF-NG-0 018**	5/8	230 V-I	486	1.1	613	2.3	749	4.1	0.50	4.7	1x Ø 172	300	350	1/4"-1/2"	< 1.5	50+12	25	
	BSF-NG-1 026	3/4	230 V-I	763	3.2	952	7.0	1 155	13	0.82	8.5	1x Ø 200	550	1 700	1/4"-1/2"	< 2.0	67+16	27	
	BSF-NG-2 034	1 1/4	230 V-I	930	3.9	1 107	8.1	1 437	15	1.18	11.3	2x Ø 200	1 050	1 700	1/4"-1/2"	< 2.0	83+16	30	
	BSF-NG-2 054	1 3/4	230 V-I *	1 186	6.8	1 385	13	1 779	23	1.58	17.3	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.5	93+24	32	
	BSF-NG-2 074	2 1/2	230 V-I *	1 412	12	1 786	20	2 200	32	1.83	25.3	2x Ø 200	1 050	1 700	1/4"-5/8"	< 2.5	93+24	33	
	BSF-NG-3 074	2 1/2	230 V-I *	1 676	15	2 168	25	2 680	41	1.94	26.2	3x Ø 254	1 725	1 700	1/4"-5/8"	< 3.0	93+45	33	
	BSF-NG-3 086	3	400 V-III	1 995	16	2 490	32	3 014	52	2.21	10.9	3x Ø 254	1 725	3 200	1/4"-5/8"	< 3.5	84+45	27	
	BSF-NG-4 096	3 1/2	400 V-III	2 139	19	2 670	39	3 523	68	2.48	12.0	3x Ø 254	1 725	3 700	3/8"-3/4"	< 5.0	97+45	40	
	BSF-NG-4 108	4 1/4	400 V-III	2 463	29	3 276	50	4 118	78	2.82	14.6	3x Ø 254	1 725	3 700	3/8"-7/8"	< 5.0	97+45	38	
	BSF-NG-4 136	5	400 V-III	2 949	37	3 775	61	4 648	100	3.64	16.8	3x Ø 254	1 725	3 700	3/8"-7/8"	< 5.0	100+45	34	

Options

- Change to 400 V-III-50 Hz power supply. + 5 %
- Proportional control of condensing pressure through fan speed variation (except series 0). + 250 €
- Coil protection grille. + 90 €
- Built-in oil separator. + 590 €
- Anti-corrosion evaporator coil coating. + 6 %
- Anti-corrosion condensator coil coating. + 4 %
- Larger sized multifunction electronic control. + 150 €

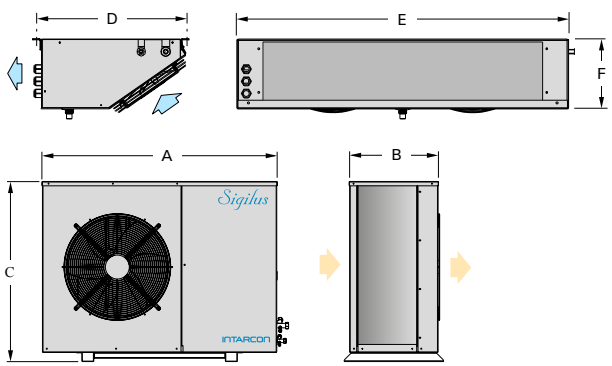
(1) Nominal performances refer to operation with cold room temperatures of 0 °C (PT) and -20 °C (NT) ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 8).

(2) Units with refrigerant load less than 5 tons of CO2 equivalent (3.8 kg of R-134a or R-449A) exempt from leak checking Regulation (EU) No 517/2014.

(3) Sound pressure in dB (A) in open field at 10 m from the unit.

* Units available with 400 V-III-50 Hz power supply.

Dimensions



Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
series 0 and 00	670	308	440	400	520	150	1x Ø 172
series 1 and 11	1 030	375	580	430	600	200	1x Ø 200
series 2 and 12	1 030	375	580	430	950	200	2x Ø 200
series 3 and 13	1 030	375	580	508	1 650	200	3x Ø 254
series 4 and 23	1 080	415	830	508	1 650	200	3x Ø 254
series 24	1 080	415	830	544	2 020	265	4x Ø 300
series 34	1 150	480	1 100	544	2 020	265	4x Ø 300

230 V-I-50 Hz / 400 V-III-50 Hz | Positive temperature | R-134a / R-449A

	Series / Model	Compressor HP	Compressor Power supply	Cooling capacity according to cold room temperature (1) -5 °C W	-5 °C m³	0 °C W	0 °C m³	5 °C W	5 °C m³	10 °C W	10 °C m³	Input power (kW)	Max. current (A)	Fan evap.	Evap. airflow. (m³/h)	Conden. airflow (m³/h)	Liq-Gas Cooling Connection	Refrig. load (kg) (2)	Weight (kg)	S.P.L. dB(A) (3)	Price (€)
R-134a	**MSF-QY-10 068**	3 1/2	400 V-III	3 281	42	4 106	60	4 998	69	5 985	110	1.98	12.8	1x Ø 350	2 100	3 200	1/4"-3/4"	< 4.0	82+43	36	
	MSF-QY-20 086	4	400 V-III	3 523	45	4 442	65	5 429	75	6 515	120	2.19	14.8	1x Ø 350	2 100	3 700	3/8"-7/8"	< 4.5	96+43	39	
	MSF-QY-21 108	5	400 V-III	4 226	58	5 334	81	6 521	130	7 807	210	2.56	16.3	1x Ø 350	2 700	3 700	3/8"-7/8"	< 5.0	98+56	37	
	MSF-QY-22 136	6 1/2	400 V-III	5 749	80	7 277	120	8 831	186	10 553	290	3.63	21.1	2x Ø 350	4 150	3 700	3/8"-1 1/8"	< 5.0	101+72	36	
	MSF-QY-33 171	8	400 V-III	6 746	100	8 484	172	10 295	197	12 306	354	4.42	24.1	2x Ø 350	5 200	4 000	3/8"-1 1/8"	< 7.0	140+89	39	
	MSF-QY-33 215	10	400 V-III	8 426	130	10 563	241	12 857	268	15 419	440	5.24	30.5	3x Ø 350	6 200	6 500	3/8"-1 1/8"	< 7.5	147+94	35	
	MSF-QY-34 271	13	400 V-III	11 099	165	13 776	256	16 622	346	19 777	550	7.19	40.2	4x Ø 350	8 300	6 500	1/2"-1 3/8"	< 8.5	152+118	35	
R-449A	**MSF-QG-10 038**	1 3/4	400 V-III	3 280	31	3 919	48	4 625	75	5 472	120	1.77	7.4	1x Ø 350	2 100	3 200	1/4"-5/8"	< 3.0	82+43	30	
	MSF-QG-20 048	2	400 V-III	3 964	43	4 736	63	5 572	95	6 605	150	2.21	8.8	1x Ø 350	2 100	3 700	3/8"-3/4"	< 5.0	84+43	30	
	MSF-QG-20 054	2 1/2	400 V-III	4 395	48	5 197	72	6 078	110	7 158	170	2.38	9.4	1x Ø 350	2 100	3 700	3/8"-3/4"	< 5.0	85+43	30	
	MSF-QG-21 060	3	400 V-III	5 081	61	6 032	89	7 055	130	8 328	200	2.84	10.4	1x Ø 350	2 700	3 700	3/8"-3/4"	< 5.0	88+56	29	
	MSF-QG-21 068	3 1/2	400 V-III	5 519	78	6 528	110	7 601	160	8 942	250	3.21	11.4	1x Ø 350	2 700	3 700	3/8"-3/4"	< 7.0	88+56	29	
	MSF-QG-32 086	4	400 V-III	6 787	91	8 180	130	9 707	190	11 545	300	4.13	13.6	2x Ø 350	4 150	4 000	1/2"-7/8"	< 7.0	115+72	39	
	MSF-QG-32 108	5	400 V-III	8 623	125	10 181	175	11 880	255	13 969	400	5.05	16.7	2x Ø 350	4 150	6 500	1/2"-7/8"	< 7.0	120+72	37	
	MSF-QG-43 136	6 1/2	400 V-III	11 105	160	13 146	220	15 399	320	18 145	500	6.63	21.5	3x Ø 350	6 200	7 000	1/2"-1 1/8"	< 10.0	135+89	36	
	MSF-QG-44 160	8	400 V-III	11 597	170	14 009	230	16 660	340	19 806	530	7.59	26.0	4x Ø 350	8 300	7 000	5/8"-1 1/8"	< 10.0	157+118	45	

230 V-I-50 Hz / 400 V-III-50 Hz | Negative temperature | R-449A

	Series / Model	Compressor HP	Compressor Power supply	Cooling capacity according to cold room temperature (1) -25 °C W	-25 °C m³	-20 °C W	-20 °C m³	-15 °C W	-15 °C m³	Input power (kW)	Max. current (A)	Fan evap.	Evap. airflow. (m³/h)	Conden. airflow (m³/h)	Liq-Gas Cooling Connection	Refrig. load (kg) (2)	Weight (kg)	S.P.L. dB(A) (3)	Price (€)
R-449A	**BSF-QG-10 074**	2 1/2	230 V-I *	2 052	15	2 562	25	3 015	44	2.13	25.1	1x Ø 350	2 100	1 700	1/4"-5/8"	< 3.0	93+43	33	
	BSF-QG-10 086	3	400 V-III	2 302	17	2 837	32	3 410	56	2.06	9.8	1x Ø 350	2 100	3 200	1/4"-5/8"	< 3.0	84+43	27	
	BSF-QG-20 096	3 1/2	400 V-III	2 456	20	3 135	43	3 881	74	2.39	11.5	1x Ø 350	2 100	3 700	1/4"-3/4"	< 4.0	97+43	40	
	BSF-QG-21 108	4 1/4	400 V-III	3 023	28	3 883	50	4 772	86	2.76	13.5	1x Ø 350	2 700	3 700	1/4"-7/8"	< 5.0	97+56	38	
	BSF-QG-22 136	5	400 V-III	4 159	53	5 116	83	6 146	130	4.02	16.4	2x Ø 350	4 150	3 700	3/8"-1 1/8"	< 5.0	97+72	34	
	BSF-QG-33 215	7 1/2	400 V-III	5 970	80	7 605	130	9 334	200	5.63	25.8	3x Ø 350	6 200	6 500	1/2"-1 1/8"	< 7.5	147+94	40	
	BSF-QG-34 271	10	400 V-III	8 005	120	9 839	185	11 798	230	7.15	28.2	4x Ø 350	8 300	6 500	1/2"-1 3/8"	< 8.5	147+118	40	

Options

- Change to 400 V-III-50 Hz power supply. + 5 %
- Coil protection grille. + 90 €
- Built-in oil separator. + 590 €
- Anti-corrosion evaporator coil coating. + 6 %
- Anti-corrosion condensator coil coating. + 4 %
- Larger sized multifunction electronic control. + 150 €

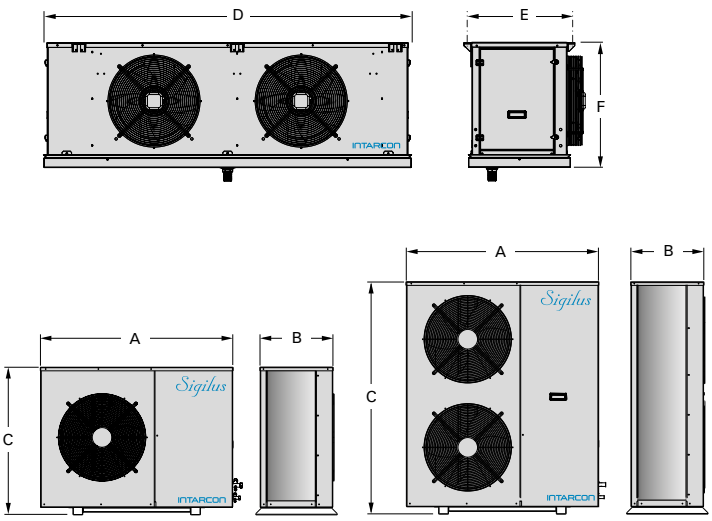
(1) Nominal performances refer to operation with cold room temperatures of 0 ºC (PT) and -20 ºC (NT) ambient temperature of 35 ºC. Estimated cold room volume according to conditions of the calculation bases (page 8).

(2) Units with refrigerant load less than 5 tons of CO2 equivalent (3.8 kg of R-134a or R-449A) exempt from leak checking Regulation (EU) No 517/2014.

(3) Sound pressure in dB (A) in open field at 10 m from the unit.

* Units available with 400 V-III-50 Hz power supply.

Dimensions



Electrical interconnections

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m (except series 43 and 44).

Fan voltage	400 V-III-50 Hz	
Fan series	0 - 1	3 - 4
Probes	4 x 1 mm²	
Maneuver	3 x 1 mm²	
Defrost	4 x 1.5 mm² + T	4 x 2.5 mm² + T
Thermostat	2 x 1 mm²	
Switch door*	2 x 1 mm² (+ 2 x 1 mm² in NT)	
Cold room light*	2 x 1 mm² + T	

* Optional not included. To know electrical interconnections of each model: see technical manual.

Dimensions (mm)	A	B	C	D	E	F
series 10	1 030	375	580	881	455	553
series 20	1 080	415	830	881	455	553
series 21	1 080	415	830	1 231	455	553
series 22	1 080	415	830	1 531	455	553
series 32	1 150	480	1 100	1 531	455	553
series 33	1 150	480	1 100	1 932	455	553
series 34	1 150	480	1 100	2 432	455	553
series 43	1 150	480	1 350	1 932	455	553
series 44	1 150	480	1 350	2432	455	553

ASF series

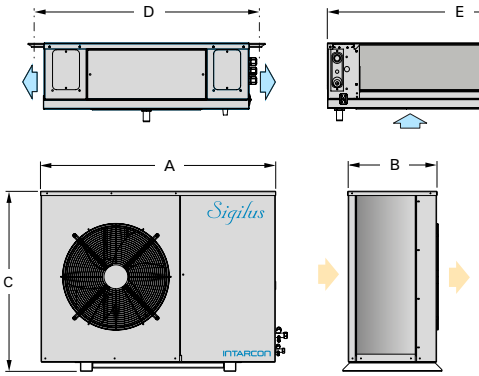
230 V-I-50 Hz / 400 V-III-50 Hz | High temperature | R-134a / R-449A

	Series / Model	Compressor HP	Compressor Power supply	Cooling capacity according to cold room temperature [1] +9 °C W	+9 °C m³	+12 °C W	+12 °C m³	+15 °C W	+15 °C m³	Input power (kW)	Max. current (A)	Evap. airflow. (m³/h)	Conden. airflow (m³/h)	Liq-Gas Cooling Connection	Refrig. load (kg) [2]	Weight (kg)	S.P.L. dB(A) [3]	Price (€)
R-134a	**ASF-DY-11 015**	1/2	230 V-I	1 687	16	**1 922**	**21**	2 160	29	0.69	4.7	1 100	1 700	1/4"-1/2"	< 2.5	57+32	20	
	ASF-DY-11 026	3/4	230 V-I	2 342	23	**2 678**	**30**	2 977	41	1.05	8.4	1 100	1 700	1/4"-1/2"	< 2.5	65+32	22	
	ASF-DY-12 033	1	230 V-I	2 840	27	**3 176**	**36**	3 533	48	1.33	10.4	1 800	1 700	1/4"-5/8"	< 3.0	67+45	22	
	ASF-DY-13 053	1 1/2	230 V-I *	4 226	42	**4 730**	**56**	5 271	72	2.04	13.6	3 150	1 700	3/8"-3/4"	< 4.0	77+65	27	
	ASF-DY-13 074	2	230 V-I *	6 053	62	**6 825**	**83**	7 634	112	2.61	17.6	3 150	3 200	3/8"-3/4"	< 4.5	79+65	28	
	ASF-DY-23 086	4	400 V-III	7 151	75	**8 033**	**99**	8 957	131	2.90	14.4	3 150	3 700	3/8"-7/8"	< 5.0	96+65	39	
	ASF-DY-24 108	5	400 V-III	8 936	99	**10 028**	**122**	11 146	165	3.80	17.5	5 700	3 700	3/8"-7/8"	< 5.5	98+70	37	
	ASF-DY-24 136	6 1/2	400 V-III	11 093	128	**12 332**	**168**	13 645	224	5.00	21.2	5 700	3 700	1/2"-1 1/8"	< 6.0	98+70	36	
	ASF-DY-34 171	8	400 V-III	13 424	146	**14 989**	**186**	16 669	251	5.88	25.2	5 700	6 500	1/2"-1 1/8"	< 6.0	120+70	40	
	ASF-DY-44 215	10	400 V-III	15 771	171	**17 593**	**218**	19 546	294	6.61	30.2	5 700	7 000	1/2"-1 3/8"	< 9.5	120+70	40	
R-449A	**ASF-DG-1 016**	5/8	230 V-I	2 161	19	**2 387**	**25**	2 635	35	0.99	7.5	1 100	1 700	1/4"-1/2"	< 2.5	67+32	23	
	ASF-DG-1 018	3/4	230 V-I	2 462	23	**2 709**	**30**	2 961	42	1.18	8.8	1 100	1 700	1/4"-1/2"	< 2.5	68+32	24	
	ASF-DG-1 024	1	230 V-I	3 225	29	**3 539**	**39**	3 879	51	1.53	11.3	1 800	1 700	3/8"-5/8"	< 3.5	82+45	24	
	ASF-DG-1 026	1 1/4	230 V-I *	3 709	35	**4 078**	**46**	4 466	63	1.75	12.0	1 800	3 200	3/8"-5/8"	< 3.5	83+45	27	
	ASF-DG-1 034	1 1/2	230 V-I *	4 607	43	**5 046**	**58**	5 494	77	2.24	16.6	1 800	3 200	3/8"-5/8"	< 3.5	83+45	29	
	ASF-DG-1 038	1 3/4	400 V-III	5 393	52	**5 885**	**68**	6 410	91	2.20	7.8	3 150	3 200	3/8"-5/8"	< 4.0	82+65	30	
	ASF-DG-2 048	2	400 V-III	6 722	67	**7 343**	**87**	7 962	115	2.76	9.3	3 150	3 700	1/2"-3/4"	< 5.0	84+65	30	
	ASF-DG-2 054	2 1/2	400 V-III	7 447	75	**8 113**	**97**	8 793	130	3.00	9.8	3 150	3 700	1/2"-3/4"	< 5.5	85+65	30	
	ASF-DG-3 060	3	400 V-III	8 824	94	**9 673**	**115**	10 551	155	3.60	11.9	3 150	6 500	1/2"-7/8"	< 6.0	88+65	29	
	ASF-DG-3 068	3 1/2	400 V-III	9 662	98	**10 578**	**125**	11 512	165	4.19	12.9	3 150	6 500	1/2"-7/8"	< 6.0	88+65	29	
	ASF-DG-4 086	4	400 V-III	11 687	120	**12 829**	**155**	14 001	205	4.90	15.2	5 700	7 000	5/8"-1 1/8"	< 9.0	115+70	39	
	ASF-DG-4 108	5	400 V-III	14 416	150	**15 702**	**190**	17 068	255	6.40	18.2	5 700	7 000	5/8"-1 1/8"	< 8.5	120+70	37	

Options

- Change to 400 V-III-50 Hz power supply. + 5 %
- Proportional control of condensing pressure through fan speed variation (already included in series 2/23 and above). + 250 €
- Coil protection grille. + 90 €
- Built-in oil separator. + 590 €
- Anti-corrosion evaporator coil coating. + 6 %
- Anti-corrosion condensator coil coating. + 4 %
- Condensed water pump. + 120 €
- Larger sized multifunction electronic control. + 150 €

Dimensions



	Dimensions (mm)	A	B	C	D	E	F	Evaporator fans
R-134a	series 11	1 030	375	580	798	706	245	1x Ø 360
	series 12	1 030	375	580	798	1 056	245	2x Ø 360
	series 13	1 030	375	580	798	1 756	245	3x Ø 360
	series 23	1 080	415	830	798	1 756	245	3x Ø 360
	series 24	1 080	415	830	888	2 156	295	3x Ø 450
	series 34	1 150	480	1 100	888	2 156	295	3x Ø 450
	series 44	1 150	480	1 350	888	2 156	295	3x Ø 450
R-449A	ASF-DG-1 016 and 1 018	1 030	375	580	798	706	245	1x Ø 360
	ASF-DG-1 024 to 1 034	1 030	375	580	798	1 056	245	2x Ø 360
	ASF-DG-1 038	1 030	375	580	798	1 756	245	3x Ø 360
	series 2	1 080	415	830	798	1 756	245	3x Ø 360
	series 3	1 150	480	1 100	798	1 756	245	3x Ø 360
	series 4	1 150	480	1 350	888	2 156	295	3x Ø 450

[1] Nominal performances refer to operation with cold room temperatures of 12 °C (HT) ambient temperature of 35 °C. Estimated cold room volume according to conditions of the calculation bases (page 8).

[2] Units with refrigerant load less than 5 tons of CO_2 equivalent (3.8 kg of R-134a or R-449A) exempt from leak checking Regulation (EU) No 517/2014.

[3] Sound pressure in dB (A) in open field at 10 m from the unit.

* Units available with 400 V-III-50 Hz power supply.

Interconexiones eléctricas

For the interconnection of the condenser and evaporator units, the following cable sections must be provided for a length of 10 m (except series 4 and 44).

Fan voltage	230 V-I-50 Hz	400 V-III-50 Hz	
Fan series	1 - 2	3	4 - 5
Probes	4 x 1 mm²		
Maneuver	2 x 1 mm² + T	3 x 1 mm² + T	5 x 1 mm² + T
Defrost	-		
Thermostat	2 x 1 mm²		
Switch door*	2 x 1 mm² (+ 2 x 1 mm² in NT)		
Cold room light*	2 x 1 mm² + T		

* Optional not included. To know electrical interconnections of each model: see technical manual.