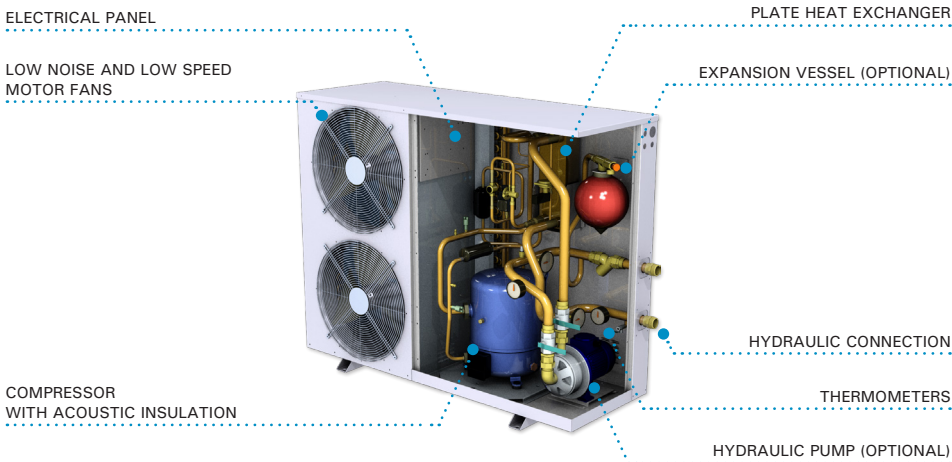




Air-cooled water or glycol condensing chillers, with silent operation and compact construction in galvanised steel bodywork and structure in polyester paint for outdoor installation.

### Features

- ▶ 230V 50Hz or 400V 3N 50Hz power supply. Available in 60Hz. Others voltages by request.
- ▶ Hermetic reciprocating or scroll compressor, acoustically insulated, with discharge silencer (in hermetic reciprocating compressor), mounted on dampers, with internal clixon and crankcase heater.
- ▶ Large-surface condensing coil made of copper tubes and aluminium fins, with tropicalised dimensioning for ambient temperatures up to 50 °C.
- ▶ Low-speed, nozzle-mounted motor fans, dynamically balanced propellers and external protection grilles.
- ▶ Proportional condensing pressure control by means of fan speed variation (optional on single-phase models).
- ▶ Cooling circuit equipped with high and low pressure switches, ceramic filter and sight glass.
- ▶ Stainless steel plate heat exchanger.
- ▶ Electric power and control panel, with differential and magneto-thermal protection for compressor, fan/s and hydraulic pump.
- ▶ Hydraulic circuit made of copper pipe with threaded connections, fill/drain valve, air vent, flow switch, thermometers and inlet/outlet pressure gauges. Threaded connections.
- ▶ Liquid injection in low temperature models with R-449A.



- ❄ Operation with glycol water.
- ❄ Minimum coolant charge.
- ❄ Integrated hydraulic circuit.

### Highly reliable compressors

Maneurop hermetic reciprocating compressors are characterised by their great robustness and reliability of operation, and as they are cooled exclusively by the refrigerant gas, they provide effective soundproofing.



### Efficient, quiet and modulating condensing units

Motor fans with variable speed, maintain condensing pressure at low ambient temperatures with reduced noise level.



### Brazed plate heat exchanger

The chiller unit incorporate a stainless steel plate heat exchanger with copper brazing.



### Triple soundproofing

*Sigilus* chillers incorporate triple acoustic insulation:

- Compressor compartment soundproofed and separated from the air flow.
- Compressors with acoustic jacket, and hermetic reciprocating compressors with discharge silencer.
- Low speed los noise fans, on anti-vibration structure.

230V 50Hz / 400V 3N-50Hz | Positive temperature | Hermetic compressor | R-134a

Refrigerant	Compressor	Series / Model	Compressor			Cooling capacity (kW) <sup>(1)</sup>		Input power (kW)	Ecodesign SEPR <sup>(2)</sup>	Max. input current (A)	Condenser		Water flow (m <sup>3</sup> /h)	Pressure drop (kPa) <sup>(3)</sup>	Available pressure (kPa) With hydraulic group (optional) <sup>(4)</sup>	Hydraulic connection	Weight (kg)	SPL dB(A) <sup>(5)</sup>
			HP	Power supply	Model	Water outlet temperature (°C) % propylene glycol by volume					Fan Ø (mm)	Air flow (m <sup>3</sup> /h)						
						0 °C PG 25 %	-8 °C PG 35 %											
R-134a	1x Hermético	MWF-NY-5 053	1 1/2	230V	FH4518Y*	3.0	2.0	1.2	3.1	12	Ø 360	1 700	0.3	12	99	3/4"	108	28
		MWF-NY-5 074	2	230V	FH4525Y*	3.8	2.7	1.6	2.9	16	Ø 360	1 700	0.5	19	91	3/4"	110	35
		MWF-NY-6 108	5	400V 3N	MTZ64	5.7	3.9	2.2	2.9	17	Ø 450	3 700	0.6	17	92	1"	120	36
		MWF-NY-7 171	8	400V 3N	MTZ100	9.4	6.6	3.8	2.8	24	Ø 450	4 000	1.0	14	92	1 1/4"	177	41
		MWF-NY-7 272	13	400V 3N	MTZ160	14.4	10.7	6.2	2.7	39	2x Ø 450	6 500	1.6	40	150	1 1/4"	194	39

230V 50Hz / 400V 3N-50Hz | Negative temperature | Scroll compressor | R-449A

Refrigerant	Compressor	Series / Model	Compressor			Cooling capacity (kW) <sup>(1)</sup>		Input power (kW)	Ecodesign SEPR <sup>(2)</sup>	Max. input current (A)	Condenser		Glycol flow (m <sup>3</sup> /h)	Pressure drop (kPa) <sup>(3)</sup>	Available pressure (kPa) With hydraulic group (optional) <sup>(4)</sup>	Hydraulic connection	Weight (kg)	SPL dB(A) <sup>(5)</sup>
			HP	Power supply	Model	Water outlet temperature (°C) % ethylene glycol by volume					Fan Ø (mm)	Air flow (m <sup>3</sup> /h)						
						-20 °C EG 45 %	-25 °C EG 50 %											
R-449A	1x Scroll	BWF-SG-6 013	4	400V 3N	ZF13KVE EVI	5.6	4.7	3.8	1.9	11	Ø 450	3 700	0.9	40	180	1"	123	34
		BWF-SG-7 018	6	400V 3N	ZF18KVE EVI	8.4	7.1	5.2	2.1	17	2x Ø 450	6 500	1.4	42	150	1 1/4"	144	29
		BWF-SG-8 025	8	400V 3N	ZF25K5E EVI	10.7	9.1	6.2	2.2	19	2x Ø 450	7 000	1.8	40	140	1 1/4"	166	32

Options

- ▶ Built-in hydraulic unit with glycol circulating pump, expansion vessel, safety valve, mesh filter, air vent and filling valve (positive temperature models).
- ▶ Proportional condensing control (standard on three-phase models).
- ▶ Coil anti-corrosion coating.
- ▶ External coil protection grille.

Control panel

- ▶ 230V 50Hz or 400V 3N 50Hz power supply.
- ▶ Main switch.
- ▶ Multifunction electronic controller, with the following functions:
  - Compressor, fans and circulator pump management.
  - Proportional control of condensing pressure by varying fan speed (three-phase models).
  - Glycol inlet/outlet probes and evaporating temperature probe.
  - Safety control and operation alarms.
  - RS485 connection with MODBUS RTU communication protocol.

\* Models available in 400V 3N 50Hz.

<sup>(1)</sup> Nominal performance refer to positive temperature operation at I/O temperature of -2/-8 °C of propylene glycol at 35 % concentration, and at negative temperature, I/O -19/-25 °C ethylene glycol at 50 % concentration by volume, for an ambient temperature of 35 °C.

<sup>(2)</sup> Seasonal performance factor (SEPR) according to Commission Regulation (EU) 2015/1095.

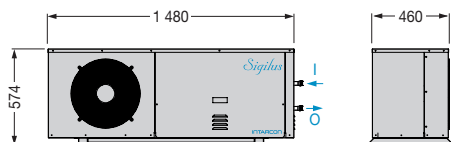
<sup>(3)</sup> Pressure drop in the heat exchanger.

<sup>(4)</sup> Pressure available in kPa for chiller with circulator pump. Consult pressure available for other hydraulic unit configurations.

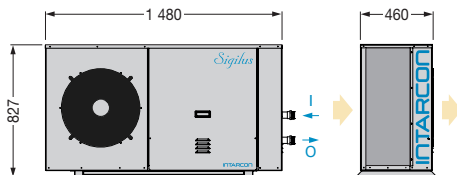
<sup>(5)</sup> Sound pressure level, with directivity 1, measured at 10 m from the unit (non-binding value calculated from sound power).

Dimensions

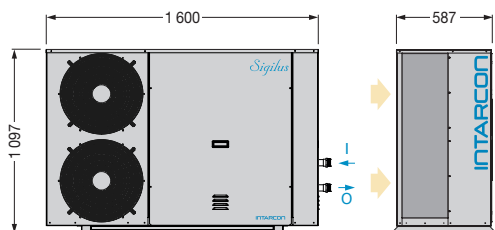
5 series



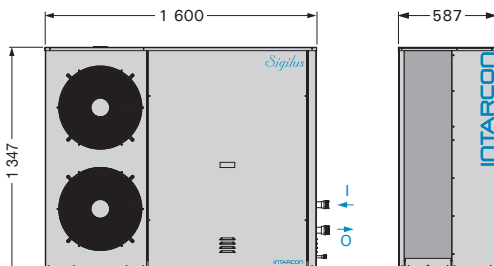
6 series



7 series



8 series



Dimensions in mm.