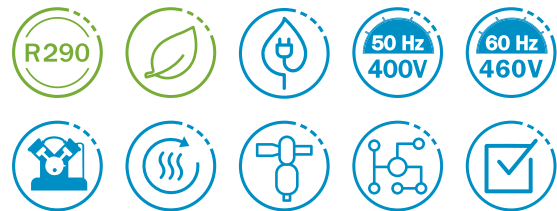



R290 intarWatt FULL INVERTER

WATER OR GLYCOL CHILLERS FOR OUTDOOR INDUSTRIAL REFRIGERATION APPLICATIONS WITH A REDUCED R-290 REFRIGERANT CHARGE.



TECHNICAL SPECIFICATIONS

CONSTRUCTION 	Compact construction with V-shaped condensers.	<input checked="" type="checkbox"/>
	Self-supporting casing made of galvanised sheet steel with weather-resistant polyester coating. Removable side panels around the entire perimeter.	<input checked="" type="checkbox"/>
	Sealed electrical panel, independent from the refrigerated compartment.	<input checked="" type="checkbox"/>
	Silentblocks for unit installation.	<input type="checkbox"/>
FANS 	Two electronic fans per refrigeration circuit with variable speed.	<input checked="" type="checkbox"/>
	Radial fans with vertical discharge.	<input type="checkbox"/>
	AxiTop® diffuser(s) on condensing fan(s).	<input type="checkbox"/>
REFRIGERATION CIRCUIT 	Semi-hermetic compressors with capacity control, unloaded start and crankcase heater and INVERTER drive on each compressor.	<input checked="" type="checkbox"/>
	Refrigeration circuits made of annealed copper tubing with brazed joints, filter drier, ATEX high and low pressure switches, pressure transducers and temperature probes.	<input checked="" type="checkbox"/>
	Stainless steel plate evaporator(s) brazed with pure copper and electronic expansion valve(s).	<input checked="" type="checkbox"/>
	Heat recovery (20 or 100 % of condenser heat) for hot water production.	<input type="checkbox"/>
	Kit for operation at low ambient temperatures (< -15 °C) with pressure control valves, liquid receiver and electrical panel heater (except WW-1).	<input type="checkbox"/>
HYDRAULIC CIRCUIT 	Hydraulic circuit made of copper tubing with threaded or flanged connections, with filling/drain valve, air vent, flow switch, and inlet and outlet thermometers and pressure gauges.	<input checked="" type="checkbox"/>
	Integrated hydraulic module with multiple configurations. See page 34.	<input type="checkbox"/>
SECURITY 	ATEX fans for continuous ventilation of the refrigeration compartment.	<input checked="" type="checkbox"/>
	Leak detector with audible and visual alarm.	<input checked="" type="checkbox"/>
	Shunt trip coil for cutting off the power supply line to electrical components located in the refrigeration compartment.	<input checked="" type="checkbox"/>
	Safety valve on the high- and low-pressure sides for common ducted discharge.	<input checked="" type="checkbox"/>
	Independent power supply for the exhaust fan and leak detector, with residual-current and thermal-magnetic protection. Flow switch supplied separately.	<input checked="" type="checkbox"/>
COIL 	Microchannel condenser coil with Polyester Powder Coating treatment.	<input checked="" type="checkbox"/>
	Copper microtube coil with aluminium fins, except AWW.	<input type="checkbox"/>
	Polyurethane anti-corrosion coating for copper microtube coil with aluminium fins, except AWW.	<input type="checkbox"/>
	Anti-corrosion treatment for copper microtube coil with Alucoat® fins, except AWW.	<input type="checkbox"/>
	Aqua Aero® anti-corrosion coating for copper microtube finned coil, except AWW.	<input type="checkbox"/>
Aqua Aero® anti-corrosion coating for microchannel coil.	<input type="checkbox"/>	

See dimensions on page 29.

**ELECTRICAL
PANEL AND
CONTROL**



Programmable intarChiller electronic controller with refrigeration control with floating setpoint (external 0-10 V signal), condensing fan control with floating setpoint, pump control, external signal for Silence mode, alarm indicator light and audible leak detection alarm.

Voltage and phase failure control.

Programmed spare electronic controller.

Electronic controller for heat recovery.

As standard Optional Accessory

INSTALLATION SCHEME



CLIENT360
client360.intarcon.com
REFRIGERATION CALCULATION SOFTWARE

Opening limits

		Minimum val.	Maximum val.
Water/glycol outlet temp.	HT	0 °C	12 °C
	PT	-15 °C	-1 °C
	NT	-30 °C	-16 °C
HR water inlet temp.		20 °C	40 °C
Ambient temp.		-15 °C	45 °C

400V 3N 50Hz / 460V 3N 60 Hz | High temperature | Positive temperature | Negative temperature | INVERTER semi-hermetic compressor | R-290

Refrigerant	Application	Series / Model	Compressor		Cooling capacity (kW) ⁽¹⁾			Input power (kW)	SEPR ⁽²⁾	Max. input current (A)	Condenser		Water flow rate (m³/h)	Hydraulic connection	Weight (kg)	SPL dB(A) ⁽³⁾
			HP	Model	Agua 12/7 °C	PG -2/-8 °C	EG -19/-25 °C				Fan Ø (mm)	Air flow (m³/h)				
R-290	High temperature	AWW-FD-10502A/B	2x 25i	2x V25-71AXH Full Inverter	127.4	-	-	41.6	3.1	104	4x Ø 500	44,000	19.7	DN80	1,525	51
		AWW-FD-10702A/B	2x 35i	2x V35-103AXH Full Inverter	165.9	-	-	58.9	2.3	114	4x Ø 500	44,000	26.7	DN80	1,540	53
		AWW-FD-20802A/B	2x 40i	2x Z40-126AXH Full Inverter	222.8	-	-	72.3	3.1	152	4x Ø 800	99,000	36.5	DN100	2,780	56
		AWW-FD-21002A/B	2x 50i	2x Z50-168AXH Full Inverter	281.0	-	-	94.3	3.0	180	4x Ø 800	99,000	45.7	DN100	2,785	58
		AWW-FD-21502A/B	2x 75i	2x W75-228AXH Full Inverter	361.7	-	-	130.0	2.8	246	4x Ø 800	99,000	58.4	DN125	3,183	61
		AWW-FD-31203A/B	3x 40i	3x Z40-126AXH Full Inverter	334.2	-	-	108.4	3.1	223	6x Ø 800	149,000	54.7	DN125	4,160	58
		AWW-FD-31503A/B	3x 50i	3x Z50-168AXH Full Inverter	421.5	-	-	141.4	3.0	263	6x Ø 800	149,000	68.5	DN125	4,170	60
		AWW-FD-32253A/B	3x 75i	3x W75-228AXH Full Inverter	542.5	-	-	195.0	2.8	363	6x Ø 800	149,000	88.0	DN125	4,951	63
		AWW-FD-42004A/B	4x 50i	4x Z50-168AXH Full Inverter	561.9	-	-	188.6	3.0	347	8x Ø 800	199,000	91.4	DN125	5,550	61
		AWW-FD-43004A/B	4x 75i	4x W75-228AXH Full Inverter	723.3	-	-	260.0	2.8	480	8x Ø 800	199,000	117.3	DN150	6,816	64
	AWW-FD-53755A/B	5x 75i	5x W75-228AXH Full Inverter	904.1	-	-	324.9	2.8	598	10x Ø 800	248,000	146.6	DN150	8,535	65	
	Positive temperature	MWW-FD-10502A/B	2x 25i	2x V25-71AXH Full Inverter	-	73.4	-	38.2	1.9	80	4x Ø 500	44,000	11.8	DN80	1,525	51
		MWW-FD-10702A/B	2x 35i	2x V35-103AXH Full Inverter	-	103.5	-	54.4	1.9	117	4x Ø 500	44,000	16.7	DN80	1,540	53
		MWW-FD-20802A/B	2x 40i	2x Z40-126AXH Full Inverter	-	170.5	-	81.1	2.1	182	4x Ø 800	99,000	21.6	DN100	2,780	56
		MWW-FD-21002A/B	2x 50i	2x Z50-168AXH Full Inverter	-	223.4	-	121.2	1.9	224	4x Ø 800	99,000	27.6	DN100	2,785	58
		MWW-FD-21502A/B	2x 75i	2x W75-228AXH Full Inverter	-	361.7	-	130.4	2.8	246	4x Ø 800	99,000	34.9	DN100	3,183	61
		MWW-FD-31203A/B	3x 40i	3x Z40-126AXH Full Inverter	-	335.1	-	181.7	1.9	258	6x Ø 800	149,000	32.5	DN100	4,160	58
		MWW-FD-31503A/B	3x 50i	3x Z50-168AXH Full Inverter	-	390.7	-	196.6	2.0	322	6x Ø 800	149,000	41.3	DN100	4,170	60
		MWW-FD-32253A/B	3x 75i	3x W75-228AXH Full Inverter	-	446.8	-	224.3	2.0	363	6x Ø 800	149,000	52.6	DN125	4,951	63
		MWW-FD-42004A/B	4x 50i	4x Z50-168AXH Full Inverter	-	533.1	-	317.4	1.7	347	8x Ø 800	199,000	55.1	DN125	5,550	61
		MWW-FD-43004A/B	4x 75i	4x W75-228AXH Full Inverter	-	666.8	-	446.8	1.5	498	8x Ø 800	199,000	69.8	DN125	6,816	64
	MWW-FD-53755A/B	5x 75i	5x W75-228AXH Full Inverter	-	835.5	-	562.9	1.5	616	10x Ø 800	248,000	87.3	DN150	8,535	65	
	Negative temperature	BWW-FD-10502A/B	2x 25i	2x V25-71AXH Full Inverter	-	-	32.6	28.4		82	4x Ø 500	46,000	5.7	DN80	1,525	
		BWW-FD-10702A/B	2x 35i	2x V35-103AXH Full Inverter	-	-	51.6	40.0		102	4x Ø 500	46,000	8.9	DN80	1,540	
		BWW-FD-21002A/B	2x 50i	2x Z50-168AXH Full Inverter	-	-	80.1	65.5		165	4x Ø 800	88,000	13.9	DN100	2,785	
		BWW-FD-31203A/B	3x 40i	3x Z40-126AXH Full Inverter	-	-	94.2	77.8		206	6x Ø 800	138,000	16.3	DN100	4,160	
		BWW-FD-31503A/B	3x 50i	3x Z50-168AXH Full Inverter	-	-	102.2	98.5		247	6x Ø 800	138,000	20.8	DN100	4,170	
		BWW-FD-42004A/B	4x 50i	4x Z50-168AXH Full Inverter	-	-	160.2	131.3		365	8x Ø 800	176,000	27.7	DN125	5,889	

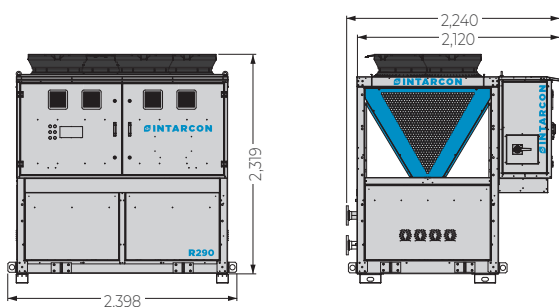
⁽¹⁾ High-temperature nominal conditions: 35 °C ambient temperature with water inlet/outlet at 12/7 °C; -2/-8 °C with a propylene glycol concentration of 35%; and -19/-25 °C with an ethylene glycol concentration of 50%.

⁽²⁾ Seasonal Energy Performance Ratio (SEPR) according to Regulations (EU) 2015/1095 and (EU) 2016/2281.

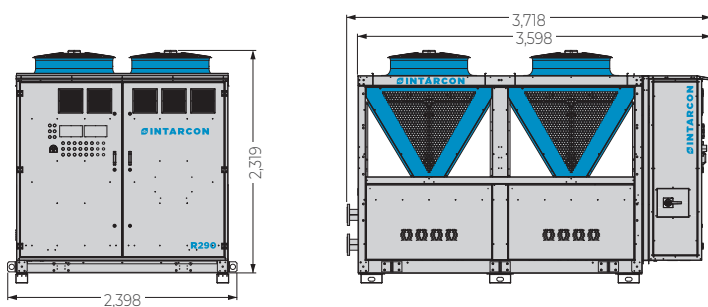
⁽³⁾ Sound pressure level in free field with compressors operating at maximum nominal capacity, directivity 1, measured 10 m from the source (non-binding value calculated from sound power).

DIMENSIONS

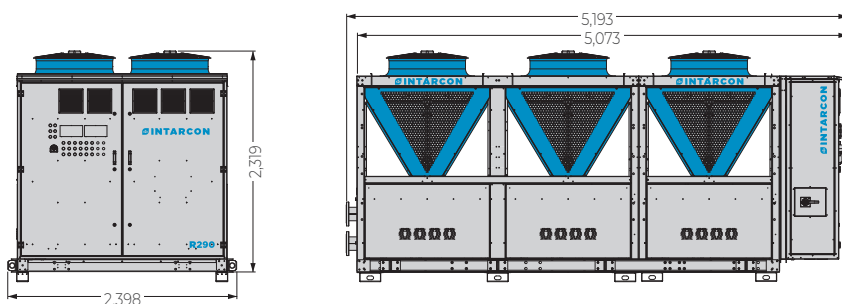
WW-FD-1 series



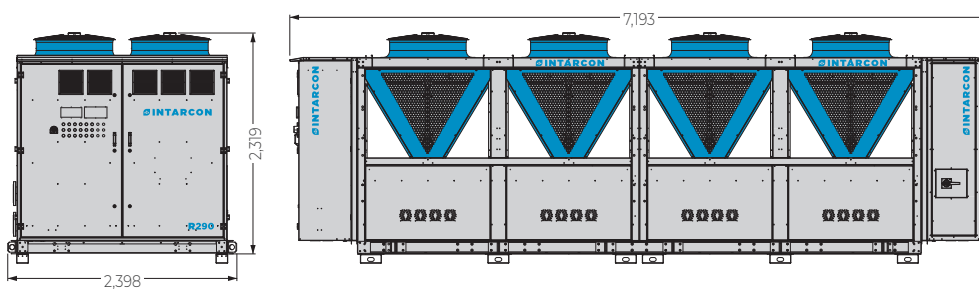
WW-FD-2 series



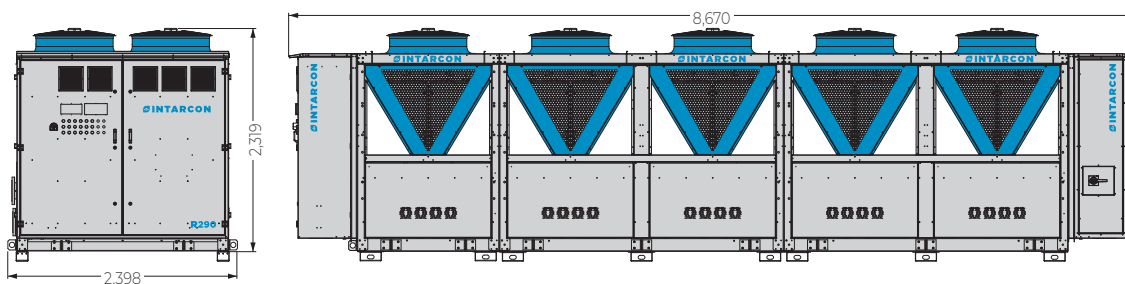
WW-FD-3 series



WW-FD-4 series



WW-FD-5 series



Dimensions in mm.