

Water chiller
 Air cooled
 Outdoor installation
Capacity from 556 to 1282 kW

SCREWLine³-i

Screw Inverter



The SCREWLine³-i liquid chillers are equipped with variable-speed screw compressors driven by an INVERTER and filled with R-134a refrigerant.

- ▶ **TWO INDEPENDENT INVERTER CIRCUITS** - Both refrigeration circuits adopt compact screw compressors with integrated inverter, for maximum reliability and durability. The WDAT-iL3 series features top-ranking seasonal efficiency within its category, while guaranteeing considerable energy saving compared to both fixed-speed screw compressors and most inverter-driven screw compressors. In addition, it is extremely silent at low loads.
- ▶ **EFFICIENT AND RELIABLE TECHNOLOGY** - SCREWLine³-i comes with electronic expansion valves, shell and tube evaporator and high-efficiency axial fans inclusive of innovative AxiTop diffusers with kinetic energy recovery.



Unit listed on
www.eurovent-certification.com

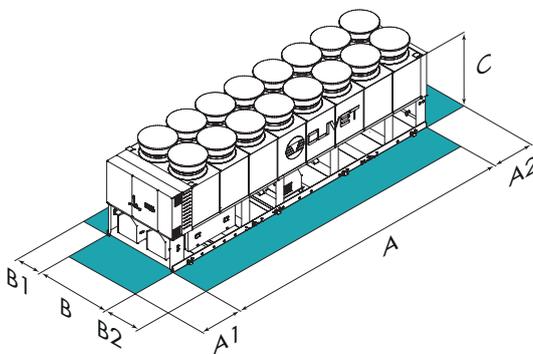


ErP compliant

functions and features



dimensions and clearances



Size - WDAT-iL3		250.2	280.2	320.2	360.2	400.2	420.2	440.2	480.2	540.2	580.2
SC-PRM A - Length	mm	4788	5760	6738	7714	8691	8691	8691	10640	10640	10640
SC-PRM B - Width	mm	2246	2246	2246	2246	2246	2246	2246	2246	2246	2246
SC-PRM C - Height	mm	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484
SC-PRM A1	mm	1535	1535	1535	1535	1535	1535	1535	1535	1535	1535
SC-PRM A2	mm	700	700	700	700	700	700	700	700	700	700
SC-PRM B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM B2	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM Operating weight	kg	5058	5658	6339	7303	7738	8251	8698	9610	9610	9610

The above mentioned data are referred to standard units for the constructive configurations indicated.

SC-PRM Compressors insulation (SC)-Premium

CAUTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

versions and configurations

LOW TEMPERATURE:

- ▶ - Low temperature: not required (Standard)
- ▶ **B** Water low temperature

VERSION:

- ▶ **PRM** Premium

▶ ENERGY RECOVERY:

- ▶ - Energy recovery: not required (Standard)
- ▶ **D** Partial energy recovery

ACOUSTIC CONFIGURATION:

- ▶ **SC** Acoustic configuration with compressor soundproofing (Standard)

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

- ▶ **CREFP** Device for fan consumption reduction of the external section at variable speed (phase-cutting) (Standard)
- ▶ **CREFB** Device for fan consumption reduction of the external section, ECOBREEZE type

TYPE FAN EXTERNAL SECTION:

- ▶ **NAXI** High efficiency diffuser for axial fan - AxiTop: not required (Standard)
- ▶ **AXIX** High efficiency diffuser for axial fan - AxiTop

technical data

Size – WDAT-il3			250.2	280.2	320.2	360.2	400.2	420.2	440.2	480.2	540.2	580.2	
SC-PRM	▶ Cooling capacity (EN14511:2013)	(1)	kW	556	616	712	802	902	954	997	1077	1169	1282
SC-PRM	Total power input (EN14511:2013)	(1)	kW	199	225	251	282	311	353	357	398	421	463
SC-PRM	EER (EN14511:2013)	(1)	-	2,80	2,74	2,84	2,84	2,90	2,71	2,79	2,71	2,78	2,77
SC-PRM	SEER	(4)	-	4,63	4,57	4,59	4,61	4,68	4,68	4,67	4,72	4,77	4,79
SC-PRM	Refrigeration circuits		Nr	2									
SC-PRM	No. of compressors		Nr	2									
SC-PRM	Type of compressors	(2)	-	ISW									
SC-PRM	Standard power supply		V	400/3/50									
SC-PRM	Sound pressure level	(3)	dB(A)	80	80	80	81	81	81	81	82	82	82

Notes

- (1) Data calculated in compliance with Standard EN 14511:2013 referred to the following conditions: Internal exchanger water = 12/7°C; External exchanger entering air = 35°C
- (2) ISW = screw compressor with integrated inverter
- (3) Sound levels refer to full load units, in test nominal conditions. The sound pressure level refers to 1 m. from the standard unit outer surface operating in open field. Measurements are carried out according to the UNI EN ISO 9614-2 standard, in compliance with the EUROVENT 8/1 certification. Data referred to the following conditions: Internal exchanger water = 12/7°C; Entering external exchanger air temperature 35°C
- (4) Data calculated according to the EN 14825:2016 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

SC-PRM Compressors insulation (SC)-Premium

accessories

- ▶ **2PM** Hydropack user side with 2 pumps
- ▶ **2PMV** Hydropack user side with no.2 of inverter pumps
- ▶ **IVFDT** Inverter driven variable flow-rate user side control depending on the temperature differential
- ▶ **IFWX** Steel mesh strainer on the water side
- ▶ **CSVX** Couple of manually operated shut-off valves
- ▶ **CCCA** Copper / aluminium condenser coil with acrylic lining
- ▶ **CCCA1** Condenser coil with Aluminium Energy Guard DCC treatment
- ▶ **REGBT** Device for the condensing coil partialization
- ▶ **AMMX** Spring antivibration mounts
- ▶ **AMMSX** Spring anti-seismic antivibration mounts
- ▶ **PGCC** Finned coil protection grilles and compressor compartment
- ▶ **PGCCH** Anti-hail protection grilles
- ▶ **TPS** Frame protective treatment
- ▶ **CONTA2** Energy meter
- ▶ **RCMRX** Remote control via microprocessor control
- ▶ **PSX** Mains power supply
- ▶ **CMSC9** Serial communication module for Modbus supervisor
- ▶ **CMSC10** Serial communication module for LonWorks supervisor
- ▶ **CMSC11** Serial communication module for BACnet-IP supervisor
- ▶ **RPRI** Refrigerant leak detector in the casing
- ▶ **SCP4** Set-point compensation with 0-10 V signal
- ▶ **SPC2** Set-point compensation with outdoor air temperature probe

Key to symbols and notes

- Accessories separately supplied