

# SCREWLINE4-I

Air-cooled liquid chiller for outdoor installation  
Capacity from 281 to 1422 kW



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps".  
Check ongoing validity of certificate on [www.eurovent-certification.com](http://www.eurovent-certification.com)



Cooling only



Air cooled



Outdoor installation



R-513A



Semi-hermetic Twin-screw



Full Inverter



Electronic expansion valve



ECOBREEZE



HydroPack



INTELLIPLANT



ErP compliant

- ✓ Screw compressors with inverter technology, Microchannel coils and EC Axial fans type
- ✓ Low environmental impact solution, with one or two independent circuits for high reliability
- ✓ Refrigerant R513A - GWP = 631
- ✓ Excellence version for high full-load and seasonal efficiency, Premium version for compact dimensions and reduced initial investment
- ✓ Operation up to 52°C outdoor air temperature, chilled water down to -8°C
- ✓ Three acoustic configurations
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hydronic assembly and partial recovery

## Versions and configurations

### VERSION:

EXC Excellence (Standard)  
PRM Premium

### LOW TEMPERATURE:

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

### ACOUSTIC CONFIGURATION:

ST Standard acoustic configuration (Standard)  
SC Acoustic configuration with compressor soundproofing

EN Supersilenced acoustic configuration

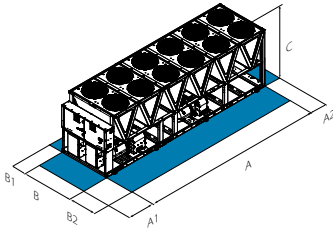
### EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

CREFB Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)

### RECUPERO ENERGETICO:

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

## Dimensions and connections



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

Size	WDAT-ik4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2
ST-EXC	A - Length	mm	4175	4175	5425	6675	7925	7925	9175	10425	10425	10425	12923	12923	12923
ST-EXC	B - Width	mm	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
ST-EXC	C - Height	mm	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
ST-EXC	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
ST-EXC	A2	mm	700	700	700	700	700	700	700	700	700	700	700	700	700
ST-EXC	B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ST-EXC	B2	mm	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ST-EXC	Operating weight	kg	3024	3167	4253	4683	5627	6071	6075	6880	7934	7950	7956	9285	9289
SC/EN-EXC	Operating weight	kg	3229	3372	4508	4938	6037	6481	6485	7340	8394	8410	8416	9795	9799

Size	WDAT-ik4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2
ST-PRM	A - Length	mm	2925	2925	4175	5425	5424	5424	6675	7924	7924	7924	10425	10425	10425
ST-PRM	B - Width	mm	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228	2228
ST-PRM	C - Height	mm	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535	2535
ST-PRM	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
ST-PRM	A2	mm	700	700	700	700	700	700	700	700	700	700	700	700	700
ST-PRM	B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
ST-PRM	B2	mm	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700	2700
ST-PRM	Operating weight	kg	2673	2793	3860	4255	4862	4867	5305	6249	6696	6696	7468	8571	8581
SC/EN-PRM	Operating weight	kg	2858	2998	4115	4510	5272	5277	5715	6709	7156	7156	7928	9081	9091

The above mentioned data are referred to standard units for the constructive configurations indicated.  
For all the other configurations, refer to the relative Technical Bulletin.  
ST-EXC Acoustic standard configuration (ST) - Excellence  
SC-EXC Compressors soundproofing (SC) - Excellence  
EN-EXC Supersilenced acoustic configuration (EN) - Excellence  
ST-PRM Standard acoustic configuration (ST) - Premium  
SC-PRM Compressors soundproofing (SC) - Premium  
EN-PRM Supersilenced acoustic configuration (EN) - Premium

## Technical data

Size	WDAT-ik4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2		
ST/SC-EXC	Cooling capacity (EN 14511:2022)	(1)	kW	294	374	505	602	593	669	741	811	900	991	1089	1204	1325	1422
ST/SC-EXC	Total power input (EN 14511:2022)	(1)	kW	93,8	120	163	194	181	210	238	253	284	318	364	387	441	485
ST/SC-EXC	EER (EN 14511:2022)	(1)	-	3,13	3,11	3,10	3,11	3,27	3,19	3,12	3,21	3,17	3,11	2,99	3,11	3,01	2,93
ST/SC-EXC	SEER	(3)	-	5,13	5,12	5,11	5,12	5,36	5,38	5,37	5,39	5,34	5,31	5,35	5,34	5,30	5,31
ST/SC-EXC	n <sub>sc</sub>	(3)	%	202,3	202,0	201,3	201,7	211,3	212,2	211,9	212,6	210,5	209,6	211,0	210,6	209,0	209,5
ST/SC-EXC	Refrigeration circuits		Nr		1							2					
ST/SC-EXC	No. of compressors		Nr		1							2					
ST/SC-EXC	Type of compressors		-														
ST/SC-EXC	Refrigerant		-														
ST/SC-EXC	Standard power supply		V														
ST-EXC	Sound power level	(2)	dB(A)	97	97	97	98	101	101	101	102	102	103	103	104	104	104
SC-EXC	Sound power level	(2)	dB(A)	93	94	94	95	97	98	98	98	100	100	101	101	101	101
EN-EXC	Sound power level	(2)	dB(A)	89	90	90	91	93	94	94	94	96	96	96	97	97	97

Size	WDAT-ik4	120.1	160.1	200.1	240.1	250.2	280.2	320.2	340.2	360.2	400.2	440.2	480.2	540.2	580.2		
ST/SC-PRM	1. Cooling capacity (EN 14511:2022)	(1)	kW	281	341	473	576	550	614	681	753	836	910	1006	1120	1240	1338
ST/SC-PRM	Total power input (EN 14511:2022)	(1)	kW	97,1	131	173	201	194	225	261	271	297	328	378	400	447	496
ST/SC-PRM	EER (EN 14511:2022)	(1)	-	2,89	2,61	2,73	2,87	2,83	2,73	2,61	2,78	2,81	2,78	2,66	2,80	2,78	2,70
ST/SC-PRM	SEER	(3)	-	4,96	4,84	4,80	4,89	4,95	4,92	4,87	4,99	4,88	4,91	4,90	4,97	4,97	4,97
ST/SC-PRM	n <sub>sc</sub>	(3)	%	195,4	190,7	189,1	192,5	194,9	193,8	191,7	196,4	192,1	193,5	192,8	195,8	195,8	195,8
ST/SC-PRM	Refrigeration circuits		Nr		1							2					
ST/SC-PRM	No. of compressors		Nr		1							2					
ST/SC-PRM	Type of compressors		-														
ST/SC-PRM	Refrigerant		-														
ST/SC-PRM	Standard power supply		V														
ST-PRM	Sound power level	(2)	dB(A)	97	97	97	98	100	101	101	102	102	103	103	104	104	104
SC-PRM	Sound power level	(2)	dB(A)	93	94	94	95	97	97	98	98	98	99	100	100	100	101
EN-PRM	Sound power level	(2)	dB(A)	89	90	90	91	93	93	94	94	94	95	96	96	96	97

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Outdoor heat exchanger inlet air temperature = 35°C

(2) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013

(3) Data calculated according to the EN 14825:2022 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.

## Accessories

1PM	Hydropack on user side with 1 pump	RPRI	Refrigerant leak detector in the casing
1PMV	Hydropack user side with nr.1 inverter pump	SCP4	Set-point compensation with 0-10 V signal
1PMH	Hydropack on user side with 1 high head pump	SPC2	Set-point compensation with outdoor air temperature probe
1PMVH	Hydropack user side with nr.1 high static pressure inverter pump	PPBM	Microchannel coils protection panels
2PM	Hydropack user side with 2 pumps	CCME	Microchannel e-coated coil
2PMV	Hydropack user side with no.2 of inverter pumps	MHP	High and low pressure gauges
2PMH	Hydropack user side with nr.2 high static pressure pump	RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
2PMVH	Hydropack user side with nr.2 high static pressure inverter pump	ECS	ECOSHARE function for the automatic management of a group of units
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential	FC2	EMC filtering to reduce conducted compressor emissions
IFWX	Steel mesh filter on the water side	PGCC	Finned coil protection grilles and compressor compartment
CSVX	Couple of manually operated shut-off valves	RDVS	Switching valve with double safety valves
AMMX	Spring antivibration mounts	REGBT	Device for the partialisation of condensing coils
AMMSX	Spring anti-seismic antivibration mounts	52G	Maximum ambient temperature 52°C
CONTA2	Energy meter	IOTX	IoT industrial module for cloud based interoperability & services
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		

Accessories whose code ends with "X" are supplied separately