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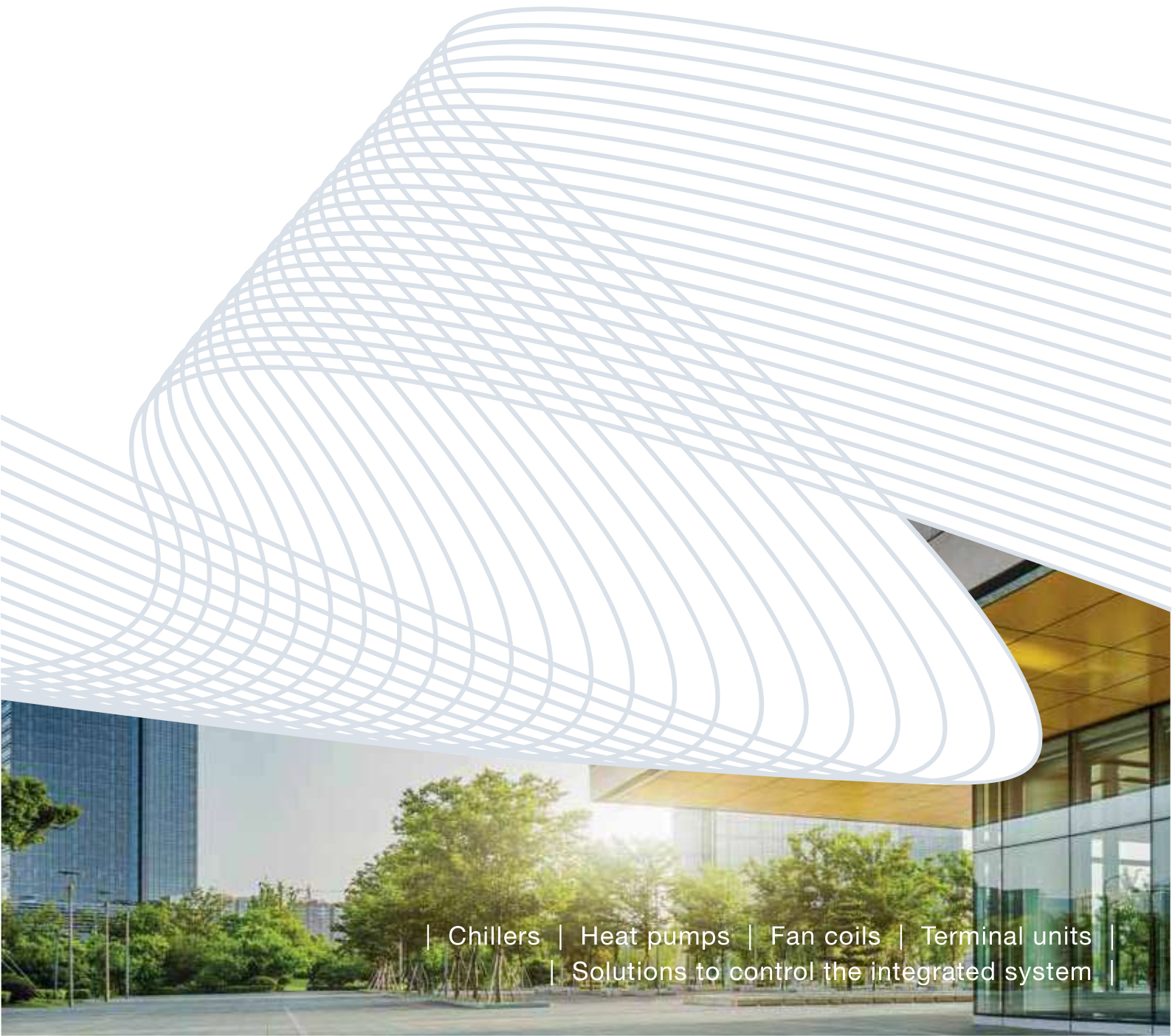
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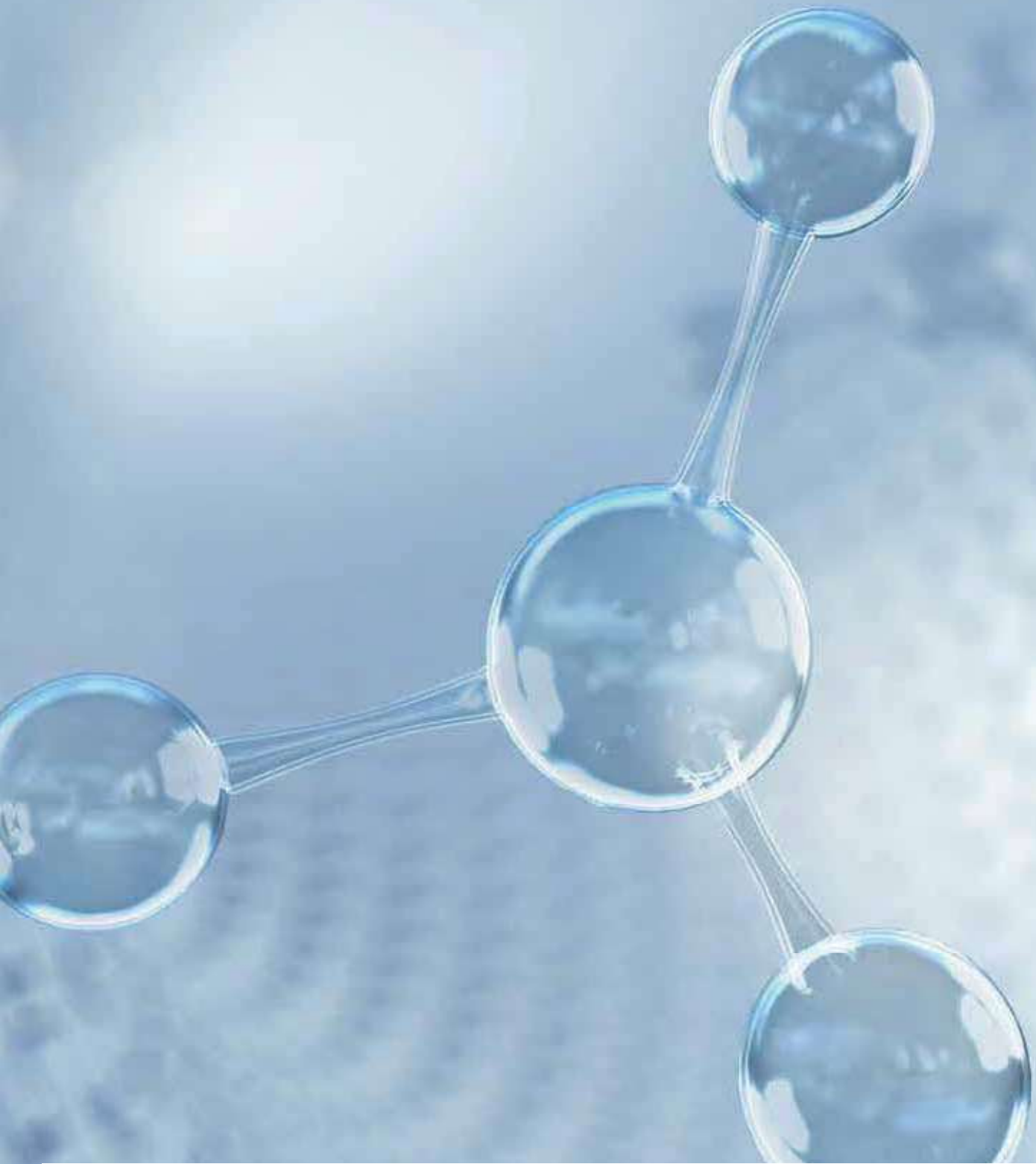
We build bridges between your projects and the world's technology!

APPLIED SYSTEMS

Product Catalogue 2020



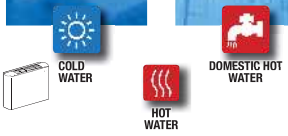
| Chillers | Heat pumps | Fan coils | Terminal units |
| Solutions to control the integrated system |



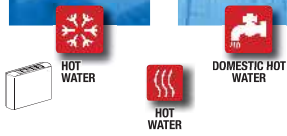
2

2-pipe systems
AUTOMATIC or SELECT modes

Summer "**AUTOMATIC**"
cooling and domestic hot water



Winter "**SELECT**"
heating and domestic hot water

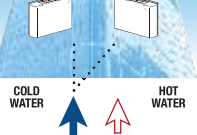


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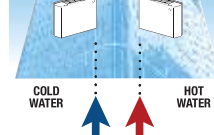
4 or 6-pipe systems **
AUTOMATIC mode throughout the year

6

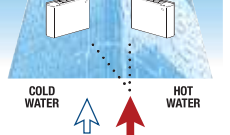
Summer
cooling



Mid-season
cooling and heating



Winter
heating



Innovation is in our DNA



The assurance of a quality product is obtained by means of thorough tests in the R&D Lab, one of the largest testing labs in Europe.

Every Rhoss unit is subjected to rigorous operating tests before being launched on the market, simulating the most extreme operating conditions.

EXP Systems is the multi-purpose ecological system designed by RHOSS to satisfy cold and hot water demands simultaneously or independently with a single unit. It is designed for use in 2, 4 and 6-pipe systems, at any time of year.

This flexibility allows it to be used in several types of construction, thereby allowing any subsequent change in the intended use.

An entire range with air and water cooled from 5 to 700 kW with TER* index up to 8.33.

* TER Total Efficiency Ratio in total heat recovery mode AUTOMATIC 2.
** 6-pipe systems achievable with the WinPOWER EXP range.

Polyvalent systems
the evolution of energy savings

Download the complete document:

<http://www.rhoss.com/download>





EXP - POLYVALENT SYSTEMS

Compact-Y EXP SM

TXAEY 117-130

Cooling capacity: 17.7÷29.1 kW - Heating capacity: 17.6÷34 kW



EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with hermetic scroll compressors and R410A refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- Main and secondary heat exchangers: suitably insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch.
- Air side heat exchanger: featuring finned coil with copper pipes and aluminium fins, complete with protection grille.
- Fan: external rotor axial type electric fans equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan rotation speed regulation.
- Control: microprocessor electronic control with AdaptiveFunction logic.
- Structure: in galvanised and painted steel plate, complete with condensate drain pan.

Models

- TXAEY: EXPsystems unit.

PUMP set up

- Pump unit for primary circuit complete with: circulator or electric circulation pump, membrane expansion tank, manual air vent valve and safety valve, and pressure gauge.

Factory fitted accessories

- Silenced set up.
- Unit base antifreeze heater for operation in heat pump mode at low outdoor air temperatures.
- Digital input for double set-point
- 4-20 mA analogue signal for shifting set-point.
- Pre-painted copper/coils or copper/copper coils.

Separately supplied accessories

- Rubber anti-vibration mounts.
- Water filter.
- Remote keypad with display.
- Clock board.
- Interfaces for serial communication with other devices.
- Serial converter (RS485/USB).
- Rhoss supervisors for unit monitoring and remote management.



TXAEY MODEL		117	124	130	
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	17,7	24	29,1
❷	Recovery heating capacity (AUTOMATIC 2)	kW	20,5	29,9	36,8
❸	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	17,6	25,7	34
❹	Heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	18,3	26,8	35,4
❶	Absorbed power (AUTOMATIC 1)	kW	6,6	9,4	11,8
❷	Absorbed power (AUTOMATIC 2)	kW	4,6	7	9,4
❸	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	6,2	9,1	11,3
❹	T.E.R. (AUTOMATIC 2)		7,98	7,7	6,93
❺	Sound pressure	dB(A)	50	52	53
❻	Silenced setup sound pressure	dB(A)	46	49	50
	Scroll/step compressor	no.	1/1	1/1	1/1
	Circuits	no.	1	1	1
❶	Available head of standard electric pump	kPa	130	131	112
	Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHT		117	124	130	
	L - Width	mm	1522	1522	1822
	H - Height	mm	1090	1280	1510
	P - Depth	mm	580	600	695
	TXAEY weight	kg	220	280	370

Data at the following conditions:

- ❶ Air: 35°C - Water: 12/7°C.
- ❷ Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ❸ Air: 7°C D.B. - 6°C W.B. - Water: 30/35°C.
- ❹ Evaporator water: 12/7°C. 40/45°C recovery water.
- ❺ In open field (Q = 2) at 5 m from the unit.
Performance according to EN 14511. Setup with electric pump.
T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE

117

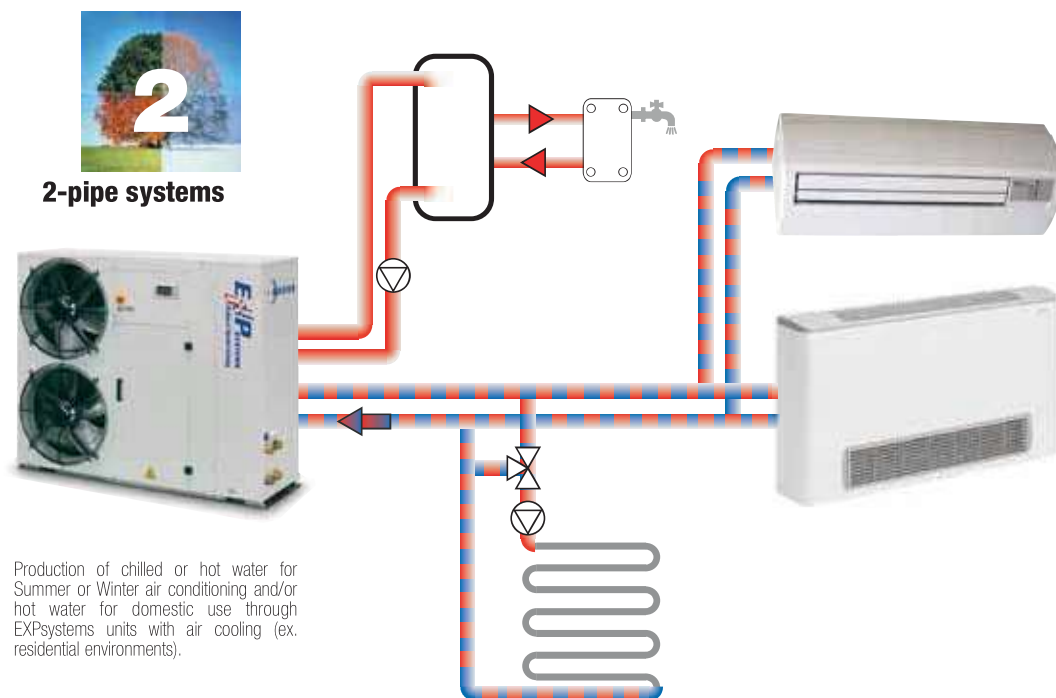
124

130

TXAEY MODEL SEASONAL PERFORMANCE IN HEATING MODE

❸	Pdesignh (EN 14825)				
❸	SCOP (EN 14825)		3,23	3,24	3,28
❹	ηs	%	126	127	128
❹	Energy class		A+	A+	A+

- ❸ In Average climatic conditions, low temperature application (35°C)
- ❹ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



Compact-Y EXP MD

TXAEY 133-265

Cooling capacity: 33.8÷61.6 kW - Heating capacity: 39.4÷68.3 kW



EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with hermetic scroll compressors and R410A refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- Main and secondary heat exchangers: suitably insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch.
- Air side heat exchanger: featuring finned coil with copper pipes and aluminium fins, complete with protection grille.
- Fan: external rotor axial type electric fans equipped with internal thermal protection, accident protection grilles and proportional electronic device for continuous fan rotation speed regulation.
- Control: microprocessor electronic control with AdaptiveFunction logic.
- Structure: made of galvanised and painted steel plate.
- The unit is also complete with:
 - display of cooling circuit high and low pressure;
 - clock board.

Models

- TXAEY: EXPsystems base unit.

Factory fitted accessories

- PUMP (only for main circuit) with single or double electric pump, including an automatic pump in standby (mod. 245÷265) complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
The electric pumps are available in the low or high pressure head versions.
- TANK&PUMP (only for main circuit) with inertial buffer tank and single or double electric pump, including an automatic pump in standby (mod. 245÷265), complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
The electric pumps are available in the low or high pressure head versions.
- Silenced set up.
- Cooling circuit high and low pressure gauges.
- Antifreeze heater for buffer tank and electric pumps.
- Digital input for double set-point
- 4-20mA analogue signal for shifting set-point.
- Pre-painted copper/coils or copper/copper coils.

Separately supplied accessories

- Rubber anti-vibration mounts.
- Water filter.
- Remote keypad with display.
- Interfaces for serial communication with other devices.
- Serial converter (RS485/USB).
- RhoSS supervisors for unit monitoring and remote management.



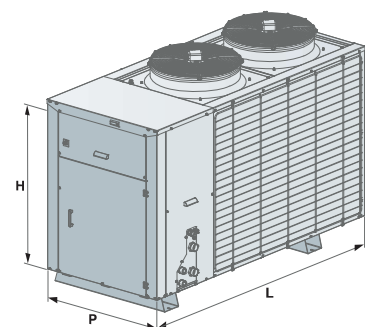
TXAEY MODEL		133	245	250	260	265	
①	Nominal cooling capacity (AUTOMATIC 1)	kW	33,8	42,4	50,3	57,9	61,6
②	Recovery heating capacity (AUTOMATIC 2)	kW	44,5	54,7	65,3	72,2	81,5
②	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	39,4	48,1	56,2	62,5	68,3
①	Absorbed power (AUTOMATIC 1)	kW	13,5	17	18,8	21,9	24,4
③	Absorbed power (AUTOMATIC 2)	kW	11,8	13,9	15,8	17,5	19,4
②	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	13,6	16,8	18,9	20,9	23,7
③	T.E.R. (AUTOMATIC 2)		6,57	6,88	7,26	7,28	7,42
④	Sound pressure	dB(A)	54	56	56	57	57
④	Silenced setup sound pressure	dB(A)	51	53	53	54	54
	Scroll/step compressor	no.	1/1	2/1	2/1	2/1	2/1
	Circuits	no.	1	1	1	1	1
	Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHT			133	245	250	260	265
	L - Width	mm	1660	2315	2315	2315	2315
	H - Height	mm	1570	1570	1570	1570	1570
	P - Depth	mm	1000	1000	1000	1000	1000
	TXAEY weight	kg	470	735	775	795	825

Data at the following conditions:

- ① Air: 35°C - Water: 12/7°C.
- ② Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ③ Evaporator water: 12/7°C. 40/45°C recovery water.
- ④ In open field (Q = 2) at 5 m from the unit.
Performance according to EN 14511.
T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		133	245	250	260	265	
TXAEY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
③	P _{designh} (EN 14825)	kW	39	48	56	62	68
③	SCOP (EN 14825)		3,28	3,72	3,74	3,79	3,73
④	η _s	%	128	146	147	149	146
④	Energy class		A+	A+	A+	A+	A+

- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



EasyPACK-I EXP

TXAIY 270÷2130

Cooling capacity: 64,4÷125,9 kW - Heating capacity: 71÷133,2 kW

INVERTER



- Multi-purpose units with inverter compressors
- TER up to 7,62
- Extended operating limits
- Units for systems with 2, 4 and 6 pipes
- Integrated MASTER/SLAVE control



TXAIY 2130 with coil protection metal filters accessory

TXAIY 2100 with coil protection metal filters accessory

EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with scroll hermetic compressors, DC Inverter and R410A refrigerant.

Construction features

- Compressor: scroll type, rotary, hermetic and with Inverter actuation (1+i) complete with thermal protection and casing heater.
- Continuous regulation with high efficiency at partial loads.
- Main and secondary heat exchangers: crossed flow stainless steel plate exchangers, complete with antifreeze heater, closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- Fan: external rotor axial type electric fans with internal thermal protection, accident protection grilles. The electric fans, based on the sizes, are EC fans or fitted with a proportional electronic device for continuous regulation of the rotation speed.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: load-bearing structure made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
 - fan and compressor circuit breaker switches;
 - electronic expansion valve;
 - display of cooling circuit high and low pressure;
 - Master/Slave control up to 4 units in parallel;
 - clock board.

Versions

- T - High efficiency version.
- Q - Super-silenced version complete with compressor technical compartment soundproofing, reduced speed fans.

Modelli

- TXAIY: EXPsystems unit.
- TXAIQY: super silenced EXPsystems unit.

Factory fitted accessories

- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high head versions.
- TANK&PUMP with 230 - 440 litre integrated buffer tank (depending on the sizes) and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
- VPF control.
- Desuperheater.
- Condensing control with fans with EC motor (standard in sizes 270-2100).
- Condensing control with over-pressure fans (T version only)
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Optimised energy efficiency.
- Soft starter.
- Technical compressor compartment soundproofing.
- Compressor soundproof enclosures.
- Cooling circuit outlet and inlet valves.
- Refrigerant leak detector.
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Metal filters or coil protection nets.
- Microchannel coils with E-coating treatment, copper/copper or pre-painted copper/aluminium depending on the versions.
- Control of min/max power supply voltage.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Evaporator antifreeze heater, electrical panel, buffer tank, electric pumps and heat exchangers for heat recovery, if applicable.
- Interfaces for serial communication with other devices.
- Rubber anti-vibration mounts.

Separately supplied accessories

- Remote keypad with display.
- Thermostat with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.



TXAITY MODEL		270	280	290	2100	2115	2130	
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	66,6	78,8	86,2	93	112,3	125,9
❸	Recovery heating capacity (AUTOMATIC 2)	kW	88,4	109,1	112,4	124,3	148,4	164,6
❷	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	72,8	85,1	92,2	100,2	120,3	133,2
❶	Absorbed power (AUTOMATIC 1)	kW	22,2	26,53	29,02	32,52	37,81	42,11
❸	Absorbed power (AUTOMATIC 2)	kW	20,9	23	26,5	29,5	35,1	38,4
❷	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	21,89	25,63	27,52	30,09	36,23	41,11
	E.E.R. (AUTOMATIC 1)		3	2,97	2,97	2,86	2,97	2,99
	T.E.R. (AUTOMATIC 2)		7,53	7,43	7,52	7,47	7,49	7,62
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,33	3,32	3,35	3,33	3,32	3,24
❹	Sound pressure	dB(A)	52	53	53	53	56	56
❺	Sound power	dB(A)	84	85	85	85	88	88
TXAIQY MODEL		270	280	290	2100	2115	2130	
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	64,4	77,2	83,7	89,4	107,9	122,2
❸	Recovery heating capacity (AUTOMATIC 2)	kW	88,4	109,1	112,4	124,3	148,4	164,6
❷	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	71	83,2	90,3	98,4	117,2	130,5
❶	Absorbed power (AUTOMATIC 1)	kW	22,92	27,18	29,68	33,48	38,54	42,88
❸	Absorbed power (AUTOMATIC 2)	kW	20,9	23	26,5	29,5	35,1	38,4
❷	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	21,52	25,14	27,28	29,82	36,06	40,78
	E.E.R. (AUTOMATIC 1)		2,81	2,84	2,82	2,67	2,8	2,85
	T.E.R. (AUTOMATIC 2)		7,53	7,43	7,52	7,47	7,49	7,62
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,3	3,31	3,31	3,3	3,25	3,2
❹	Sound pressure	dB(A)	45	46	46	46	50	50
❺	Sound power	dB(A)	77	77,5	77,5	77,5	82	82
MODEL		270	280	290	2100	2115	2130	
	Scroll/step compressor		no.1+i / continuous regulation1+i / continuous regulation1+i / continuous regulation1+i / continuous regulation1+i / continuous regulation1+i / continuous regulation					
	Circuits	no.	2	2	2	2	2	2
	Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS								
	L - Width	mm	3250	3250	3250	3250	3450	3450
	H - Height	mm	1540	1540	1540	1540	2000	2000
	P - Depth	mm	1210	1210	1210	1210	1520	1520
❶	TXAITY weight	kg	1060	1085	1095	1105	1435	1455
❷	TXAIQY weight	kg	1095	1120	1130	1140	1485	1505

Data at the following conditions:

- ❶ Air: 35°C - Water: 12/7°C.
- ❷ Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ❸ Evaporator water: 12/7°C. Recovery output water 45°C - Nominal flow rate.
- ❹ In open field (Q = 2) at 10 m from the unit.
- ❺ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ❻ Weight referred to the unit without load and not accessorised.

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		270	280	290	2100	2115	2130	
TXAITY MODEL SEASONAL PERFORMANCE IN HEATING MODE								
❸	Pdesignh (EN 14825)	kW	70	82	89	94	116	129
❸	SCOP (EN 14825)		3,93	3,96	3,98	3,99	4,01	3,91
❹	ηs	%	154	155	156	157	157	153
❹ Energy class								
TXAIQY MODEL SEASONAL PERFORMANCE IN HEATING MODE								
❸	Pdesignh (EN 14825)	kW	68	78	84	92	109	122
❸	ΣCOP (EN 14825)		4	4,03	4,01	3,93	3,9	3,84
❹	ηs	%	157	158	157	154	153	151
❹	Energy class							

WinPACK ECO EXP

TXAEU 4140÷4330

Cooling capacity: 135.7-333.6 kW - Heating capacity: 144.3-351.4 kW



- Multi-purpose units with TER up to 7.85
- R454B refrigerant gas
- Integrated MASTER/SLAVE control

EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with scroll hermetic compressors and R454B refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- 4 capacity steps with high efficiency at partial loads.
- Main and secondary heat exchangers: crossed flow stainless steel plate exchangers, complete with antifreeze heater, closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- Fan: external rotor axial type electric fans equipped with internal thermal protection and accident protection grilles. The electric fans are fitted with a proportional electronic device for continuous regulation of the rotation speed.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
 - compressor and fan circuit breaker switches;
 - electronic expansion valve;
 - display of cooling circuit high/low pressure;
 - master/slave control up to 4 units in parallel;
 - clock board.

Versions

- T - High efficiency version.
- Q - Super silenced version complete with compressor technical compartment soundproofing and reduced speed fans.

Models

- TXAETU: EXPsystems unit.
- TXAEQU: super silenced EXPsystems unit.

Factory fitted accessories

- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high head versions.
- TANK&PUMP with 440 - 700 litre integrated buffer tank (depending on the sizes) and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
- VPF control.
- Inverter pump control for unit start-up.
- Condensing control with fans with EC motor.
- Condensing control with over-pressure fans (T version only)
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Optimised energy efficiency.
- Soft starter.
- Technical compressor compartment soundproofing.
- Compressor soundproof enclosures.
- Cooling circuit outlet and inlet valves.
- Refrigerant leak detector.
- Double safety valves.
- Metal filters or coil protection nets.
- Copper/copper or copper/pre-painted aluminium coils.
- Control of min/max power supply voltage.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Electrical panel resistance, buffer tank, electric pumps, if present.
- Interfaces for serial communication with other devices.
- Anti-vibration mounts.

Separately supplied accessories

- Remote keypad with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.



TXAETU MODEL		4140	4160	4190	4210	4230	4260	4300	4330
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	141,7	157,7	189,7	213,6	232,9	263,7	333,6
❷	Recovery heating capacity (AUTOMATIC 2)	kW	183,3	204,4	244,4	275,4	301,4	339,5	430,5
❸	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	147,3	163,3	197,3	224,3	244,3	271,3	351,4
❶	Absorbed power (AUTOMATIC 1)	kW	47,9	54,4	63,4	74,2	82,9	90,9	117,5
❷	Absorbed power (AUTOMATIC 2)	kW	41,9	47,3	55,6	63,1	69,8	77,2	99,2
❸	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	45	50,4	61,1	68,6	75,2	84,3	109,8
	E.E.R. (AUTOMATIC 1)		2,96	2,9	2,99	2,88	2,81	2,9	2,84
	T.E.R. (AUTOMATIC 2)		7,8	7,68	7,85	7,78	7,69	7,84	7,73
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,27	3,24	3,23	3,27	3,25	3,22	3,2
❹	Sound pressure	dB(A)	54	55	57	57	58	60	62
❺	Sound power	dB(A)	86	87	89	89	90	92	94
TXAEQU MODEL		4140	4160	4190	4210	4230	4260	4300	4330
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	135,7	149,7	181,7	202,7	219,7	255,7	323,6
❷	Recovery heating capacity (AUTOMATIC 2)	kW	183,3	204,4	244,4	275,4	301,4	339,5	430,5
❸	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	144,3	159,4	194,3	219,3	238,3	268,3	347,4
❶	Absorbed power (AUTOMATIC 1)	kW	51	56,9	64	75,9	85,5	89,4	112,8
❷	Absorbed power (AUTOMATIC 2)	kW	41,9	47,3	55,6	63,1	69,8	77,2	99,2
❸	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	44,3	49,3	58,9	66,5	73,5	81,3	105,3
	E.E.R. (AUTOMATIC 1)		2,66	2,63	2,84	2,67	2,57	2,86	2,87
	T.E.R. (AUTOMATIC 2)		7,8	7,68	7,85	7,78	7,69	7,84	7,73
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,26	3,23	3,3	3,3	3,24	3,3	3,32
❹	Sound pressure	dB(A)	48	49	51	51	52	54	56
❺	Sound power	dB(A)	80	81	83	83	84	86	88
MODEL		4140	4160	4190	4210	4230	4260	4300	4330
	Scroll/step compressor	no.	4/4	4/4	4/4	4/4	4/4	4/4	4/4
	Circuits	no.	2	2	2	2	2	2	2
	Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS									
	L - Width	mm	3450	3450	4800	4800	4800	5300	5300
	H - Height	mm	2000	2000	2030	2030	2030	2030	2030
	P - Depth	mm	1520	1520	2090	2090	2090	2090	2090
❶	TXAETU weight	kg	1670	1685	2405	2550	2610	2750	3250
❷	TXAEQU weight	kg	1735	1750	2495	2640	2700	2840	3340

Data at the following conditions:

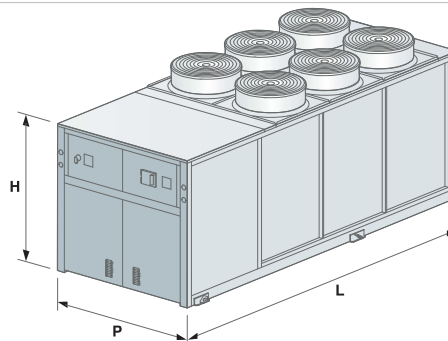
- ❶ Air: 35°C - Water: 12/7°C.
- ❷ Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ❸ Evaporator water: 12/7°C. 40/45°C recovery water.
- ❹ In open field (Q = 2) at 10 m from the unit.
- ❺ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ❻ Weight referred to the unit without load and not accessorised.

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		4140	4160	4190	4210	4230	4260	4300	4330
TXAITY MODEL SEASONAL PERFORMANCE IN HEATING MODE									
❸	Pdesignh (EN 14825)	kW	127	142	171	194	212	236	309
❸	SCOP (EN 14825)		3,67	3,64	3,62	3,65	3,62	3,59	3,52
❹	ηs	%	144	143	142	143	142	140	138
TXAIQY MODEL SEASONAL PERFORMANCE IN HEATING MODE									
❸	Pdesignh (EN 14825)	kW	124	139	168	190	207	234	305
❸	SCOP (EN 14825)		3,67	3,65	3,73	3,72	3,64	3,72	3,66
❹	ηs	%	144	143	146	146	143	146	143

- ❸ In Average climatic conditions, low temperature application (35°C)
- ❹ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



Y-Pack EXP

TXAEY 280-4320

Cooling capacity: 80.7-332.9 kW - Heating capacity: 84.3÷354.3 kW



TXAESY 4320 with coil protection nets accessory

• T.E.R. (°) up to 8.18

EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with hermetic scroll compressors and R410A refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- Main and secondary heat exchangers: crossed flow stainless steel plate exchangers, complete with antifreeze heater, closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- Fan: electric helical fans with EC motor with continuous regulation of rotation speed, equipped with internal thermal protection and complete with accident protection grilles.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
 - fan and compressor circuit breaker switches;
 - clock board;
 - electronic expansion valve;
 - display of cooling circuit high/low pressure.

Versions

- • T - High efficiency version with fans with EC motor.
- S - Silenced version complete with compressor technical compartment soundproofing, reduced speed fans with EC motor.

Models

- TXAEY: EXPsystems unit.
- TXAESY: silenced EXPsystems unit.

Factory fitted accessories

- PUMP (for main and secondary circuit) with single or double electric pump, including an automatic pump in standby. The electric pumps are available in the low or high head versions.
- TANK&PUMP (for main circuit only) with integrated buffer tank and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
- Inverter pump control for unit start-up.
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Soft starter forced limit of power consumption.
- Cooling circuit high and low pressure gauges.
- Metal filters or coil protection nets.
- Copper/copper or copper/pre-painted aluminium coils.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Buffer tank antifreeze resistors and electric pumps if present.
- Interfaces for serial communication with other devices.
- Anti-vibration mounts.

Separately supplied accessories

- Remote keypad with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.



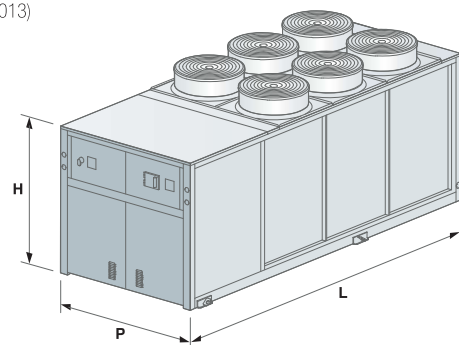
TXAETY MODEL		280	2100	2130	4160	4200	4260	4320	
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	83,7	107,6	134,6	162,5	206,2	263,1	332,9
❷	Recovery heating capacity (AUTOMATIC 2)	kW	108,3	140,4	174,5	215,6	272,9	347	441,3
❸	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	86,3	111,4	139,5	171,6	227,9	282	354,3
❶	Absorbed power (AUTOMATIC 1)	kW	27	35,2	43,8	56,6	72,6	93,9	118,5
❷	Absorbed power (AUTOMATIC 2)	kW	23,9	32,6	39,8	52,1	66,1	82,4	107,8
❸	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	25,6	33,9	42,9	55,2	73,9	91,9	116,5
	E.E.R. (AUTOMATIC 1)		3,1	3,06	3,07	2,87	2,84	2,8	2,81
	T.E.R. (AUTOMATIC 2)		8,09	7,64	7,79	7,30	7,28	7,44	7,21
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,37	3,29	3,25	3,11	3,08	3,07	3,04
❹	Sound pressure	dB(A)	52	52	53	54	59	61	61
❺	Sound power	dB(A)	84	84	85	86	91	93	93
TXAESY MODEL		280	2100	2130	4160	4200	4260	4320	
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	80,7	103,7	129,6	156,5	199,3	254,1	316
❷	Recovery heating capacity (AUTOMATIC 2)	kW	108,3	140,4	174,5	215,6	272,9	347	441,3
❸	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	84,3	108,4	136,4	167,6	221,8	275	345,2
❶	Absorbed power (AUTOMATIC 1)	kW	27,3	35,6	44,3	57,2	73,6	94,9	119,3
❷	Absorbed power (AUTOMATIC 2)	kW	23,9	32,6	39,8	52,1	66,1	82,4	106,5
❸	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	24,6	32,5	41,1	52,9	71,1	88,5	111,8
	E.E.R. (AUTOMATIC 1)		2,96	2,92	2,93	2,74	2,71	2,68	2,65
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,43	3,34	3,32	3,17	3,12	3,11	3,09
❹	Sound pressure	dB(A)	49	49	50	51	54	57	57
❺	Sound power	dB(A)	81	81	82	83	86	89	89
MODEL		280	2100	2130	4160	4200	4260	4320	
	Scroll/step compressor	no.	2/2	2/2	2/2	4/4	4/4	4/4	4/4
	Circuits	no.	2	2	2	2	2	2	2
	Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS		280	2100	2130	4160	4200	4260	4320	
	L - Width	mm	2600	2600	3700	3700	4800	4800	4800
	H - Height	mm	2000	2000	2000	2000	2030	2030	2030
	P - Depth	mm	2090	2090	2090	2090	2090	2090	2090

Data at the following conditions:

- ❶ Air: 35°C - Water: 12/7°C.
- ❷ Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ❸ Evaporator water: 12/7°C. Recovery output water 45°C - Nominal flow rate.
- ❹ In open field (Q = 2) at 10 m from the unit.
- ❺ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614. Performance according to EN 14511.
T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		280	2100	2130	4160	4200	4260	4320	
TXAETY MODEL SEASONAL PERFORMANCE IN HEATING MODE									
❸	P _{designh} (EN 14825)	kW	77	98	124	153	201	252	314
❸	SCOP (EN 14825)		3,99	3,85	3,81	3,46	3,41	3,37	3,36
❹	η _s	%	157	151	149	136	133	132	131
TXAESY MODEL SEASONAL PERFORMANCE IN HEATING MODE									
❸	P _{designh} (EN 14825)	kW	75	95	121	148	196	246	305
❸	SCOP (EN 14825)		4,1	3,92	3,91	3,52	3,48	3,44	3,43
❹	η _s	%	161	154	153	138	136	135	134

- ❸ In Average climatic conditions, low temperature application (35°C)
- ❹ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



WinPOWER EXP

TXAEY 4400-6660

Cooling capacity: 361.2-648.1 kW - Heating capacity: 405÷706.2 kW



TXAESY 6580 with STE accessory and RPB coil protection nets accessory



Multi-purpose units in class A with TER up to 7.9

- Extended operating limits
- Units for systems with 2, 4 and 6 pipes

EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with hermetic scroll compressors and R410A refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- Up to 6 capacity steps with high efficiency at partial loads.
- Main and secondary heat exchangers: crossed flow stainless steel plate exchangers, complete with antifreeze heater, closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- Fan: external rotor axial type electric fans, equipped with internal thermal protection, accident protection grilles and a proportional electronic device for continuous fan rotation speed regulation (T version; fans with an EC motor are standard in the Q version)
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: load-bearing structure made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
 - fan and compressor circuit breaker switches, heat exchanger antifreeze heater;
 - display of cooling circuit high and low pressure;
 - electronic expansion valve;
 - clock board.

Versions

- T - High efficiency version.
- Q - Super silenced version complete with compressor technical compartment soundproofing, fans with EC motor at super reduced speed.

Models

- TXAETY: EXPsystems unit.
- TXAEQY: super silenced EXPsystems unit.

Factory fitted accessories

- Tube and shell main and secondary heat exchangers.
- PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the main and secondary/recovery heat exchanger low or high head set-ups.
- TANK&PUMP with 700-1000 litre integrated buffer tank (depending on models) and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.
- Inverter pump control for unit start-up.
- Desuperheater.
- -15°C condensing control with fans with EC motor (standard with Q versions).
- Condensing control with over-pressure fans (T version only).
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Optimised energy efficiency.
- Soft starter.
- Compressor box and soundproofed cooling circuit.
- Compressor soundproof enclosures.
- Cooling circuit outlet and inlet valves.
- Refrigerant leak detector.
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Coil protection nets or metal filters.
- Bottom compartment protection nets.
- Pre-painted copper/aluminium or copper/copper coils.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Electrical panel antifreeze heater, buffer tank, electric pumps and desuperheater, if applicable.
- Interfaces for serial communication with other devices.
- Spring anti-vibration mounts.

Separately supplied accessories

- Remote keypad with display.
- Thermostat with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.



TXAETY MODEL		4400	4440	6520	6580	6660	
①	Nominal cooling capacity (AUTOMATIC 1)	kW	397	434,8	525,4	577,4	648,1
③	Recovery heating capacity (AUTOMATIC 2)	kW	516,1	568,4	686,8	760,9	847,2
②	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	426,1	470,4	569,8	629,9	706,2
①	Absorbed power (AUTOMATIC 1)	kW	131,9	145	176,4	198,5	218,3
③	Absorbed power (AUTOMATIC 2)	kW	117,7	130	158,8	180,9	196,6
②	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	131,2	144,3	177	195,1	217,3
	E.E.R. (AUTOMATIC 1)		3,01	3	2,98	2,91	2,97
	T.E.R. (AUTOMATIC 2)		7,79	7,77	7,67	7,43	7,64
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,25	3,26	3,22	3,23	3,25
④	Sound pressure	dB(A)	76	76,5	76,5	76,5	76,5
⑤	Sound power	dB(A)	96	97	97	97	98
TXAEQY MODEL		4400	4440	6520	6580	6660	
①	Nominal cooling capacity (AUTOMATIC 1)	kW	361,2	390,1	474,8	515,8	580,5
③	Recovery heating capacity (AUTOMATIC 2)	kW	516,1	568,4	686,8	760,9	847,2
②	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	405	445,2	547,6	598,7	669,9
①	Absorbed power (AUTOMATIC 1)	kW	141,7	159,3	192,3	222,4	236
③	Absorbed power (AUTOMATIC 2)	kW	117,7	130	158,8	180,9	196,6
②	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	125	137,5	168,5	184,8	206,2
	E.E.R. (AUTOMATIC 1)		2,55	2,45	2,47	2,32	2,46
	C.O.P. (SELECT 1-2 AUTOMATIC 3)		3,24	3,24	3,25	3,24	3,25
④	Sound pressure	dB(A)	53,5	54,5	54,5	54,5	56,5
⑤	Sound power	dB(A)	86	87	87	87	89
MODEL		4400	4440	6520	6580	6660	
	Scroll/step compressor	no.	4/4	4/4	6/6	6/6	6/6
	Circuits	no.	2	2	2	2	2
	Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS		4400	4440	6520	6580	6660	
	L - Width	mm	4840	4840	5940	5940	6840
	H - Height	mm	2450	2450	2450	2450	2450
	P - Depth	mm	2260	2260	2260	2260	2260
⑥	TXAETY weight	kg	3650	3760	4480	4580	5250
⑥	TXAEQY weight	kg	4340	4360	5270	5370	6070

Data at the following conditions:

- ① Air: 35°C - Water: 12/7°C.
- ② Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ③ Evaporator water: 12/7°C. Recovery output water 45°C - Nominal flow rate.
- ④ In open field (Q = 2) at 10 m from the unit.
- ⑤ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ⑥ Weight refers to the unit without load.

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		4400	4440	6520	6580	6660	
TXAETY MODEL SEASONAL PERFORMANCE IN COOLING MODE							
①	P _{designc} (EN 14825)	kW	-	434,7	525,3	577,2	647,9
①	SEER (EN 14825)		-	4,13	4,25	4,23	4,26
②	η _{s,c}	%	-	162	167	166	167
TXAEQY MODEL SEASONAL PERFORMANCE IN COOLING MODE							
①	P _{designc} (EN 14825)	kW	-	-	474,7	515,7	580,4
①	SEER (EN 14825)		-	-	4,25	4,2	4,24
②	η _{s,c}	%	-	-	167	165	167
TXAETY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
③	P _{designh} (EN 14825)	kW	361	-	-	-	-
③	SCOP (EN 14825)		3,63	-	-	-	-
④	η _s	%	142	-	-	-	-
TXAEQY MODEL SEASONAL PERFORMANCE IN HEATING MODE							
③	P _{designh} (EN 14825)	kW	344	382	-	-	-
③	SCOP (EN 14825)		3,64	3,65	-	-	-
④	η _s	%	142	143	-	-	-

- ① Low temperature application (7°C)
- ② Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)

Z-Power EXP

TXAVZ 2550-2700

Cooling capacity: 530.3÷695.1 kW - Heating capacity: 548÷709.9 kW



TXAVSZ 2550

TXAVSZ 2700

• T.E.R. (°) up to 8.33

EXPsystems - Air cooled multi-purpose ecological system with axial fans.

Range with semi-hermetic screw compressors and R134a refrigerant gas.

Construction features

- Compressor: high energy efficiency semi-hermetic screw compressor, with star-delta limited start and complete with integral protection, casing heater, refrigerant gas intake and delivery piping shut-off valve and compressor oil level sensor.
- Main and secondary heat exchangers: dry expansion shell and tube with counterflow heat exchange, complete with antifreeze heater, closed cell polyurethane foam rubber insulation, water flow differential pressure switch and Victaulic fittings.
- Air side heat exchanger: finned coil with copper pipes and aluminium fins.
- Fan: external rotor axial type electric fans, equipped with internal thermal protection, accident protection grilles and a proportional electronic device for continuous fan rotation speed regulation.
- Control: microprocessor electronic control.
- Structure: made of galvanised and painted steel plate with polyester powder coating
- The unit is also complete with:
 - display of cooling circuit high/low pressure;
 - clock board;
 - electronic expansion valve.

Versions

- B - Standard version (TXAVBZ).
- S - Silenced version with reduced speed fans and soundproofing lining of the compressors (TXAVSZ).
- I - Soundproofed version with soundproofing compressor lining (TXAVSZ).

Models

- TXAVBZ: standard EXPsystems unit.
- TXAVSZ: silenced EXPsystems unit.
- TXAVIZ: soundproofed EXPsystems unit.

Factory fitted accessories

- -15°C condensing control with fans with EC motor.
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Fan and compressor circuit breaker switches.
- Forced limit of power consumption.
- Coil protection nets.
- Bottom compartment protection nets.
- Digital input for double set-point
- Low and high pressure gauges for each cooling circuit.
- Electrical panel heater.
- Control of min/max power supply voltage.
- 4-20 mA analogue signal for shifting set-point.
- Pre-painted copper/aluminium or copper/copper coils.
- Interfaces for serial communication with other devices.
- Spring anti-vibration mounts.

Separately supplied accessories

- Remote keypad with display.
- Rhoss supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.



TXAVBZ MODEL		2550	2610	2700
①	Nominal cooling capacity (AUTOMATIC 1)	552	615	695,1
③	Recovery heating capacity (AUTOMATIC 2)	712,2	788,1	890,9
②	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	571,2	627,1	709,9
①	Absorbed power (AUTOMATIC 1)	182,2	200,4	227,2
③	Absorbed power (AUTOMATIC 2)	159	172,8	193,8
②	Absorbed power (SELECT 1-2 AUTOMATIC 3)	180,8	196,6	224
	E.E.R. (AUTOMATIC 1)	3,03	3,07	3,06
	T.E.R. (AUTOMATIC 2)	7,97	8,14	8,21
	C.O.P. (SELECT 1-2 AUTOMATIC 3)	3,16	3,19	3,17
④	Sound pressure	65	66	67
⑥	Sound power	98	99	99
TXAVSZ MODEL		2550	2610	2700
①	Nominal cooling capacity (AUTOMATIC 1)	530,3	590,1	667,4
③	Recovery heating capacity (AUTOMATIC 2)	712,2	788,1	890,9
②	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	548	601,9	681,7
①	Absorbed power (AUTOMATIC 1)	181	199,4	225,5
③	Absorbed power (AUTOMATIC 2)	159	172,8	193,8
②	Absorbed power (SELECT 1-2 AUTOMATIC 3)	179,7	195,5	222,1
	E.E.R. (AUTOMATIC 1)	2,93	2,96	2,96
	C.O.P. (SELECT 1-2 AUTOMATIC 3)	3,05	3,08	3,07
④	Sound pressure	59	60	61
⑤	Sound power	92	93	93
MODEL		2550	2610	2700
	Screw/step compressor	no.	2/6	2/6
	Circuits	no.	2	2
	Electrical supply	V-ph-Hz	400-3-50	400-3-50
				400-3-50
TXAVBZ-TXAVSZ DIMENSIONS AND WEIGHT		2550	2610	2700
	L - Width	mm	6130	6980
	H - Height	mm	2430	2430
	P - Depth	mm	2260	2260
⑥	TXAVBZ weight	kg	6360	7460
				8380

Data at the following conditions:

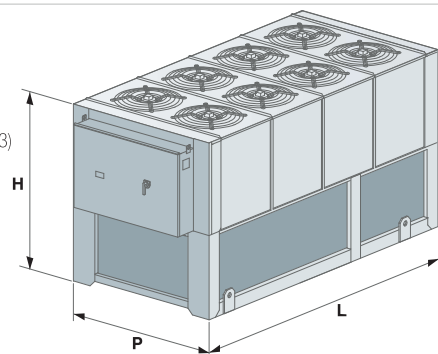
- ① Air: 35°C - Water: 12/7°C.
- ② Air: 7°C D.B. - 6°C W.B. - Water: 40/45°C.
- ③ Evaporator water: 12/7°C. Recovery output water 45°C - Nominal flow rate.
- ④ In open field (Q = 2) at 10 m from the unit.
- ⑤ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ⑥ Empty weight.

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		2550	2610	2700
TXAVBZ-TXAVIZ MODEL SEASONAL PERFORMANCE IN COOLING MODE				
①	P _{designc} (EN 14825)	kW	551,9	614,8
①	SEER (EN 14825)		4,2	4,23
②	η _{s,c}	%	165	166
TXAVSZ MODEL SEASONAL PERFORMANCE IN COOLING MODE				
①	P _{designc} (EN 14825)	kW	530,2	589,9
①	SEER (EN 14825)		4,13	4,14
②	η _{s,c}	%	162	163

- ① Low temperature application (7°C)
- ② Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



Comby-Flow EXP

TXHEY 105-112

Cooling capacity: 5.5÷12.2 kW - Heating capacity: 6.4÷13.7 kW



• Extremely compact multi-purpose units

EXPsystems - Polyvalent ecological water-cooled system. Range with hermetic scroll compressors and R410A refrigerant gas.

Construction features

- Compressor: hermetic, rotary scroll type, complete with thermal protection.
- Primary side (user) and secondary side (recovery) heat exchanger and disposal unit: suitably insulated stainless steel plates, complete with antifreeze heater and water flow differential pressure switch.
- Control: microprocessor electronic control, iDRHOSS compatible with AdaptiveFunction logic.
- Condensing control: pressure switch valve and bypass solenoid valve.
- Structure: made of galvanised and painted steel plate with polyester powder coating, complete with soundproofed compressor.

Models

- TXHEY: EXPsystems unit.

PUMP set up

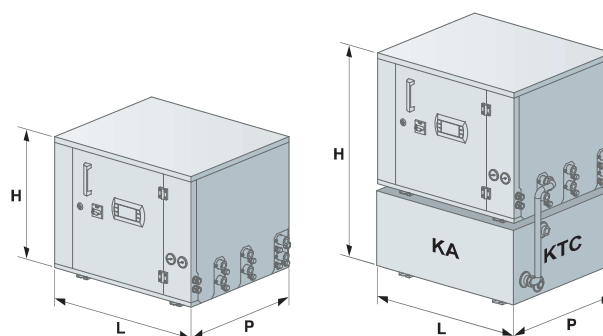
- Primary side (user): pump unit complete with electric circulation pump, membrane expansion tank, safety valve, water drain valve, manual air vent valve and pressure gauge.
- Well/tower side (disposal unit): drain valve and vent valve. Internal valve for primary side system supply (user) from external network (disposal unit side: well or tower).
- Secondary side (recovery): pump unit complete with electric circulation pump, membrane expansion tank, safety valve, water fill and drain valve, manual air vent valve and pressure gauge.

Factory fitted accessories

- Digital input for double set-point
- 4-20mA analogue signal for shifting set-point.

Separately supplied accessories

- Buffer tank.
- Buffer tank connection pipes.
- Water filter.
- Rubber anti-vibration mounts.
- Antifreeze heater on the buffer tank.
- Remote keypad with display.
- Clock board.
- Interfaces for serial communication with other devices.
- Serial converter (RS485/USB).
- Rhoss supervisors for unit monitoring and remote management.





TXHEY MODEL		105	107	109	112	
①	Nominal cooling capacity (AUTOMATIC 1)	kW	5,5	6,9	9,5	12,2
②	Recovery heating capacity (AUTOMATIC 2)	kW	6,7	8,6	11,2	14,4
③	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	6,4	8,1	10,6	13,7
①	Absorbed power (AUTOMATIC 1)	kW	1,74	2,27	2,99	3,82
②	Absorbed power (AUTOMATIC 2)	kW	2	2,8	3,4	4,6
③	Absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	2,2	3,1	3,8	4,7
②	T.E.R. (AUTOMATIC 2)		5,79	5,28	5,53	5,26
②	Recovery heating capacity (AUTOMATIC 2)	kW	8,7	10,7	14,7	18,8
④	Heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	7,3	9,5	12,4	14,7
⑤	Sound pressure	dB(A)	49	51	51	53
	Scroll/step compressor	no.	1/1	1/1	1/1	1/1
	Circuits	no.	1	1	1	1
	KA buffer tank water content	l	20	20	30	30
①	Available nominal head of pump on main heat exchanger	kPa	47	54,7	82,2	78,2
②	Available nominal head on secondary recovery heat exchanger	kPa	32,4	42,4	72,1	66,7
	Electrical supply	V-ph-Hz	230-1-50	230-1-50 / 400-3+N-50	230-1-50 / 400-3+N-50	230-1-50 / 400-3+N-50
DIMENSIONS AND WEIGHT		105	107	109	112	
	L - Width	mm	585	585	660	660
	H - TXHEY P height	mm	535	535	535	535
	H - TXHEY P + KA height	mm	855	855	855	855
	P - Depth	mm	520	520	560	560
	TXHEY Weight	kg	112	118	122	130
	KA Weight	kg	38	38	43	43

Data at the following conditions:

- ① Chilled water: 12/7°C - Condenser water: 30/35°C
- ② Chilled water: 12/7°C - Recovery water: 40/45°C.
- ③ Hot water: 40/45°C. Evaporator water: 10/7°C.
- ④ Hot water: 30/35°C. Evaporator water: 10/7°C.
- ⑤ In open field (Q = 2) at 1 m from the unit.

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

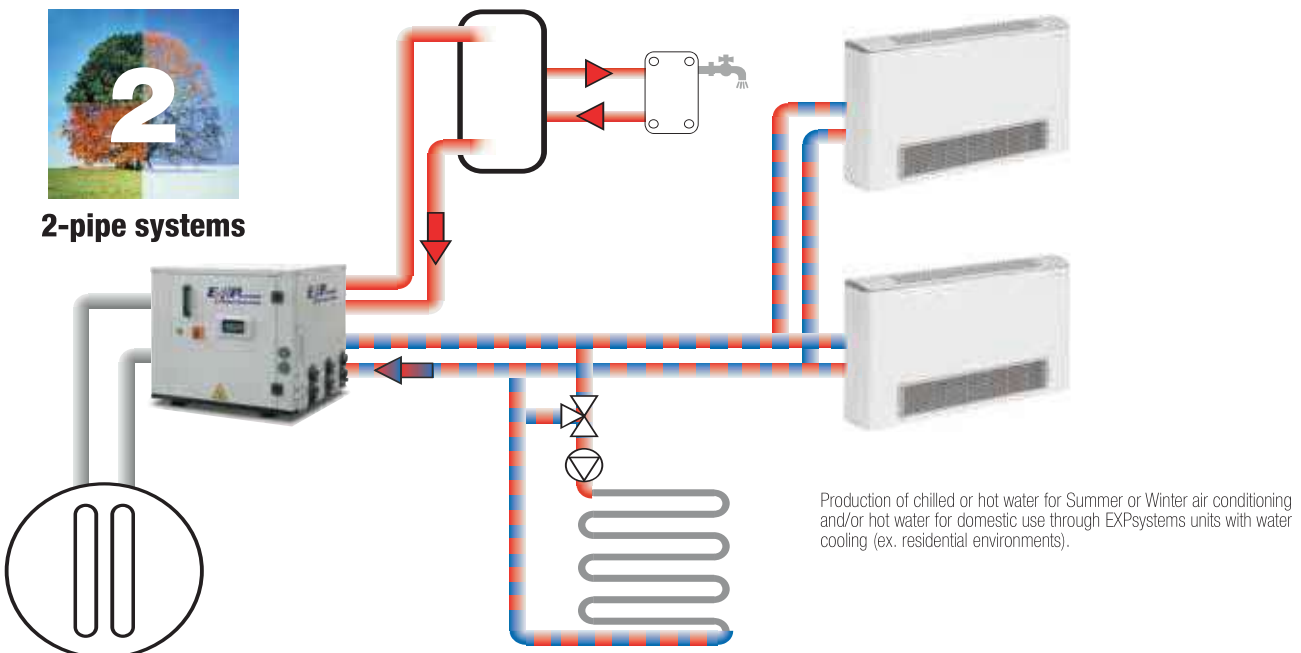
KA = buffer tank.

KTC = connecting pipe.

SEASONAL ENERGY PERFORMANCE		105	107	109	112	
TXHEY MODEL SEASONAL PERFORMANCE IN HEATING MODE						
③	P_{designh} (EN 14825)					
③	SCOP (EN 14825)		4,56	5,08	4,97	4,77
④	η _s	%	174	195	191	183
	Energy class		A++	A+++	A+++	A+++

③ In Average climatic conditions, low temperature application (35°C)

④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



Y-Flow EXP

TXHEY 245-4450

Cooling capacity: 44.2-437.8 kW - Heating capacity: 50.7÷518.9 kW



• T.E.R. (°) up to 7.8

EXPsystems - Polyvalent ecological water-cooled system.
Range with hermetic scroll compressors and R410A refrigerant gas.

Construction features

- Compressor: scroll type, rotary, hermetic complete with thermal protection and casing heater.
- Primary side (user), secondary side (recovery) heat exchangers and disposal unit: crossed flow stainless steel plate exchangers, complete with antifreeze heater, closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
 - compressor circuit breaker switches,
 - electronic expansion valve,
 - display of cooling circuit high and low pressure,
 - clock board,
 - outdoor temperature probe for set-point compensation,
 - 0-10V analogue signal for condensing/evaporating control performed by external device.

Versions

- B - Standard version.

Models

- TXHEBY: EXPsystems unit.

Factory fitted accessories

- Cooling circuit high and low pressure gauges.
- Forced limit of power consumption.
- Soft starter.
- Silenced set up.
- Digital input for double set-point.
- 4-20 mA analogue signal for shifting set-point.
- Interfaces for serial communication with other devices.
- Anti-vibration mounts.

Separately supplied accessories

- 3-way modulating condensing control valve.
- 2-way modulating condensing control valve.
- Water filter.
- Remote keypad with display.
- Thermostat with display.
- Serial converter (RS485/USB).
- RHOS supervisors for unit monitoring and remote management.
- Rhoss sequencer for integrated management of multiple chillers.



TXHEBY MODEL		245	250	260	270	290	2115	2130	2145	2165	2185	
❶	Nominal cooling capacity (AUTOMATIC 1)	kW	47	55,6	62,7	71,8	92,8	123,8	137,5	153,9	173,3	193,2
❷	Nominal cooling capacity (AUTOMATIC 1)	kW	44,2	52	59,2	67,6	88	114,6	128	142,4	161,7	180,6
❸	Recovery heating capacity (AUTOMATIC 2)	kW	50,8	59,9	68,9	76,6	103,5	135,4	149,4	165,4	188,5	212
❹	Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	49,3	58,1	66,9	74,3	100,6	131,8	145,5	160,9	183,5	206,4
❶	Total absorbed power (AUTOMATIC 1)	kW	8,5	9,8	11,3	13	16,9	21,5	24,7	26,7	31,8	36,3
❷	Total absorbed power (AUTOMATIC 1)	kW	9,9	11,4	13,1	14,9	19,1	25,5	28,8	31,7	36,8	41,9
❸	Total absorbed power (AUTOMATIC 2)	kW	12,2	14	16,1	17,8	24	31,6	35,4	39,5	46	52,3
❹	Total absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	12,1	13,9	15,9	17,6	23,7	31,4	35,14	39,1	45,6	52,1
❶	E.E.R. (AUTOMATIC 1)		5,51	5,69	5,55	5,51	5,48	5,75	5,57	5,76	5,44	5,32
❷	E.E.R. (AUTOMATIC 1)		4,49	4,57	4,52	4,54	4,61	4,5	4,45	4,5	4,4	4,32
❹	C.O.P. (SELECT 1-2 AUTOMATIC 3)		4,07	4,19	4,2	4,21	4,25	4,2	4,14	4,11	4,02	3,96
❸	T.E.R. (AUTOMATIC 2)		7,32	7,55	7,57	7,62	7,63	7,59	7,45	7,39	7,21	7,12
TXHEBY MODEL		245	250	260	270	290	2115	2130	2145	2165	2185	
❺	Sound power	dB(A)	67	67	68	68	70	72	73	74	74	75
	Scroll/step compressor	no.	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2
	Circuits	no.	1	1	1	1	1	1	1	1	1	1
	Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHT		245	250	260	270	290	2115	2130	2145	2165	2185	
	L - Width	mm	1020	1020	1020	1020	1270	1270	1270	1270	1270	
	H - Height	mm	1470	1470	1470	1470	1620	1620	1620	1620	1620	
	P - Depth	mm	870	870	870	870	870	870	870	870	870	
❻	Weight	kg	510	525	540	565	595	920	960	995	1035	1045

Data at the following conditions:

- ❶ Chilled water (user): 12/7°C - Condenser water (disposal unit-source): 14/30°C. (Gross value)
- ❷ Chilled water (user): 12/7°C - Condenser water (disposal unit-source): 30/35°C
- ❸ Chilled water (user): 12/7°C - Condenser water (recovery unit): 40/45°C.
- ❹ Evaporator water (source): 10/7°C - . Hot water (user): 40/45°C.
- ❺ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ❻ Empty weight

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

TXHEBY MODEL SEASONAL PERFORMANCE IN HEATING MODE

❸ P _{designh} (EN 14825)	kW	59	69	80	89	119	156	173	191	218	245
❸ SCOP (EN 14825)		5,89	6,09	6,21	6,1	6	6,42	6,31	6,3	6,08	5,87
❹ η _s	%	228	236	240	236	232	249	244	244	235	227
Energy class		A+++	A+++	-	-	-	-	-	-	-	-

- ❶ Low temperature application (7°C)
- ❷ Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- ❸ In Average climatic conditions, low temperature application (35°C)
- ❹ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)

Y-Flow EXP

TXHEY 245-4450

TXHEBY MODEL		4180	4205	4235	4260	4290	4330	4360	4410	4450
① Nominal cooling capacity (AUTOMATIC 1)	kW	188,5	214,7	241,2	270,2	302,7	341,1	379,9	420,9	462,6
② Nominal cooling capacity (AUTOMATIC 1)	kW	176,4	201,7	226,7	253,6	280,2	317,9	354	397,1	437,8
③ Recovery heating capacity (AUTOMATIC 2)	kW	203,2	232,2	260,6	293,8	327,1	372,5	418,8	469,3	520,2
④ Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	198,8	227,5	255,4	288	320	367	412,6	459,3	509,7
① Total absorbed power (AUTOMATIC 1)	kW	32,2	37,2	41,9	46,6	50,4	59,1	67,2	78,9	90,4
② Total absorbed power (AUTOMATIC 1)	kW	37,4	42,9	48,2	54,1	60,2	69,3	79,1	90,5	102,8
③ Total absorbed power (AUTOMATIC 2)	kW	44,2	51,5	58,8	66,1	73,7	85,4	96,9	110,5	124,7
④ Total absorbed power (SELECT 1-2 AUTOMATIC 3)	kW	43,9	51,1	58,4	65,6	72,9	84,6	95,9	109,4	123,1
① E.E.R. (AUTOMATIC 1)		5,85	5,77	5,76	5,8	6,01	5,77	5,65	5,33	5,12
② E.E.R. (AUTOMATIC 1)		4,72	4,71	4,71	4,69	4,66	4,59	4,48	4,39	4,26
④ C.O.P. (SELECT 1-2 AUTOMATIC 3)		4,52	4,45	4,37	4,39	4,39	4,34	4,3	4,2	4,14
③ T.E.R. (AUTOMATIC 2)		8,2	8,03	7,87	7,89	7,87	7,73	7,64	7,49	7,34
TXHEBY MODEL		4180	4205	4235	4260	4290	4330	4360	4410	4450
⑤ Sound power	dB(A)	77	77	78	79	80	81	82	83	84
Scroll/step compressor	no.	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Circuits	no.	2	2	2	2	2	2	2	2	2
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHT		4180	4205	4235	4260	4290	4330	4360	4410	4450
L - Width	mm	2600	2600	2600	2600	2600	2600	2600	2600	2600
H - Height	mm	1860	1860	1860	1860	1860	1860	1860	1860	1860
P - Depth	mm	870	870	870	870	870	870	870	870	870
⑥ Weight	kg	1690	1730	1780	1820	1890	1960	2000	2070	2100

Data at the following conditions:

- ① Chilled water (user): 12/7°C - Condenser water (disposal unit-source): 14/30°C. (Gross value)
- ② Chilled water (user): 12/7°C - Condenser water (disposal unit-source): 30/35°C
- ③ Chilled water (user): 12/7°C - Condenser water (recovery unit): 40/45°C.
- ④ Evaporator water (source): 10/7°C - , Hot water (user): 40/45°C.
- ⑤ Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
- ⑥ Empty weight

Performance according to EN 14511.

T.E.R.: Total efficiency ratio

SEASONAL ENERGY PERFORMANCE		4180	4205	4235	4260	4290	4330	4360	4410	4450
TXHEBY MODEL SEASONAL PERFORMANCE IN COOLING MODE										
① Pdesignc (EN 14825)	kW	-	-	-	-	-	317,9	353,9	397	437,8
① SEER (EN 14825)		-	-	-	-	-	5,96	5,83	5,66	5,95
② $\eta_{s,c}$	%	-	-	-	-	-	230	225	218	230
TXHEBY MODEL SEASONAL PERFORMANCE IN HEATING MODE										
③ Pdesignh (EN 14825)	kW	234	267	300	340	379	-	-	-	-
③ SCOP (EN 14825)		6,72	6,62	6,5	6,56	6,65	-	-	-	-
④ η_s	%	261	257	252	255	258	-	-	-	-

- ① Low temperature application (7°C)
- ② Seasonal energy efficiency: low temperature cooling (EU Regulation 2016/2281)
- ③ In Average climatic conditions, low temperature application (35°C)
- ④ Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)

The image is a composite of two photographs. The top photograph shows a close-up of a wall with vertical blue panels and two modern, horizontal, glowing light fixtures. The bottom photograph shows a wider view of a bright, modern office space. It features a large window on the left with a view of a city skyline, including a prominent skyscraper. A white leather sofa is positioned against a light-colored wall on the right. The floor is a light, reflective material with a grid pattern.

MANAGEMENT SYSTEMS, CONTROL AND MONITORING

Touch interface with Web APP for remote control and monitoring.

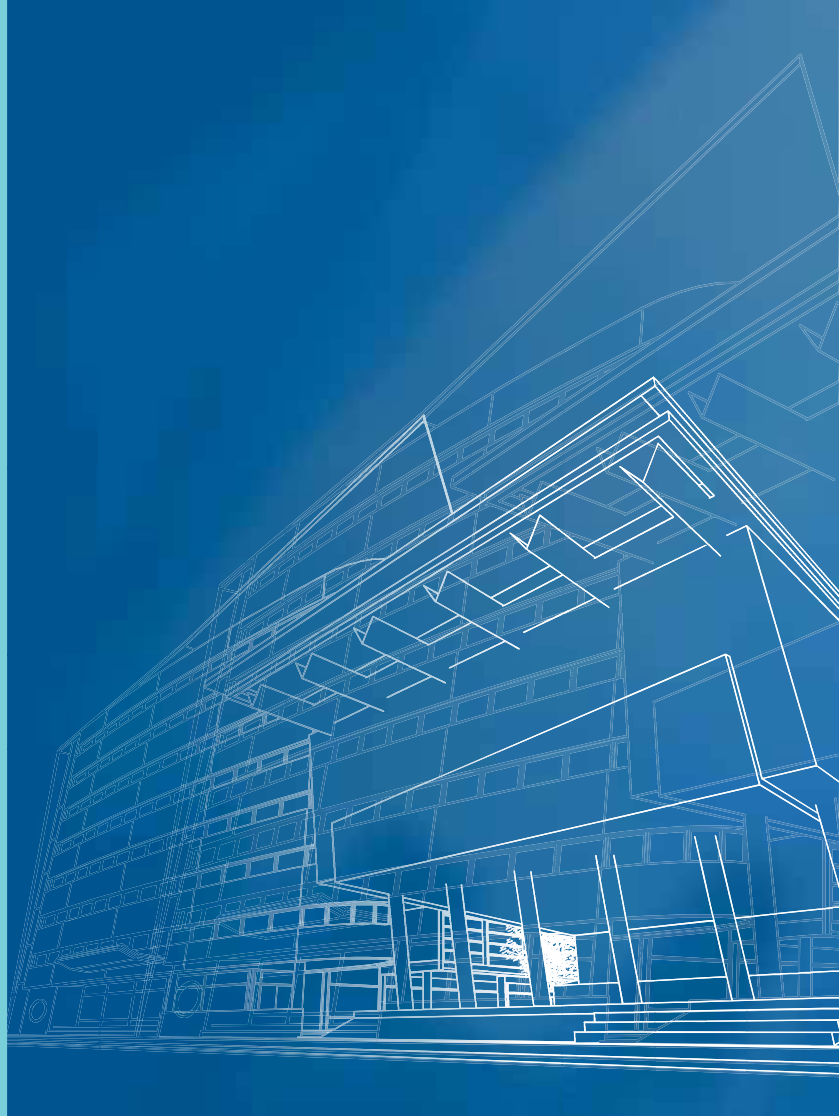
SYS-TO System Touch Manager & Web APP

The entire system
at your fingertips

System Touch Manager offers a simple and effective interface to control and program the climate of the individual rooms of a building, manage the main system components and the environment terminals from a single point.

The system offers a series of energy saving functions for the management of generators, the production of domestic hot water, the distribution network and the terminal units such as, management with time bands that allows 10 summer/winter bands to be programmed at 2 temperature levels.

It is also possible to manage via the local network and remote monitoring via the web.



The solution

SYS-TO is an integrated management system that manages the system's main components via an electronic System Manager regulator.

User interaction with the management program is very easy; it can be managed with a simple and user-friendly touch screen display or interface.

SYS-TO enables centralised management of up to maximum 64 areas made up of fan coils with relative temperature control. It is also possible to manage a cooling unit-chiller, a RHOSS multi-purpose heat pump with integrated boiler- and up to 5 VMC units, heat recovery units or air handling units.

Solution for residential, small and medium tertiary, trade and services applications:

- Villas – residences
- Hotels – restaurants – B&B
- Offices – professional offices
- Medical offices – clinics
- Shops – gyms – multi-purpose centres



System Touch Manager & Web APP



¹ Free Cloud service upon activation
² Option of BMS, Modbus RTU, Modbus TCP/IP, Bacnet IP, Bacnet MS/TP supported protocols

Functions

System manager, which is available in a small or medium version, enables you to:

- control the temperature detected in the various areas
- adjust the area set-point and limit the change
- limit user interaction with the area control
- control the fan coil with time bands (stop or start with two comfort levels)
- adjust the temperature of the water sent to the radiant panels in heating mode, with a mixing valve and climate compensation
- adjust the water temperature in the system side tank with 2 levels, comfort and economy, with climate compensation
- adjust the water temperature in the DHW tank
- manage the DHW side diverter valve
- communicate the set-point to the primary generator
- select the summer/winter operating mode manually, by date, outdoor temperature or digital input
- select the most convenient heat generator between the heat pump and boiler
- manage an integrative heat source - electrical resistance - or auxiliary - boiler, system side or DHW side
- manage the DHW recirculation pump and anti-legionella sanitisation
- manage the area pumps, based on the start status or effective call in the single areas
- start the VMC/primary air units
- send an email alarm in real time



System management solutions for small and medium tertiary, trade and services applications.

Touch interface with Web APP for remote control and monitoring.

SYS-TO System Touch Manager & Web APP

The entire system
at your fingertips

System management

SYS-TO allows for integrated management of the following components in 2-pipe systems and 2-pipe systems with domestic hot water (DHW) production:

Generators

- Rhoss heat pump/chiller or multi-purpose system
- Inertial buffer tank temperature probes on the system side
- Technical tank temperature probes for DHW production
- Integrative heat source - electrical resistance - or auxiliary - boiler.
- Diverter valve for DHW
- Outdoor air temperature probe for climatic compensation or seasonal switching

Distribution network

- Area circulation pumps, for primary or primary/secondary circuit, direct or mixed, at low temperature (up to 5)

System terminals

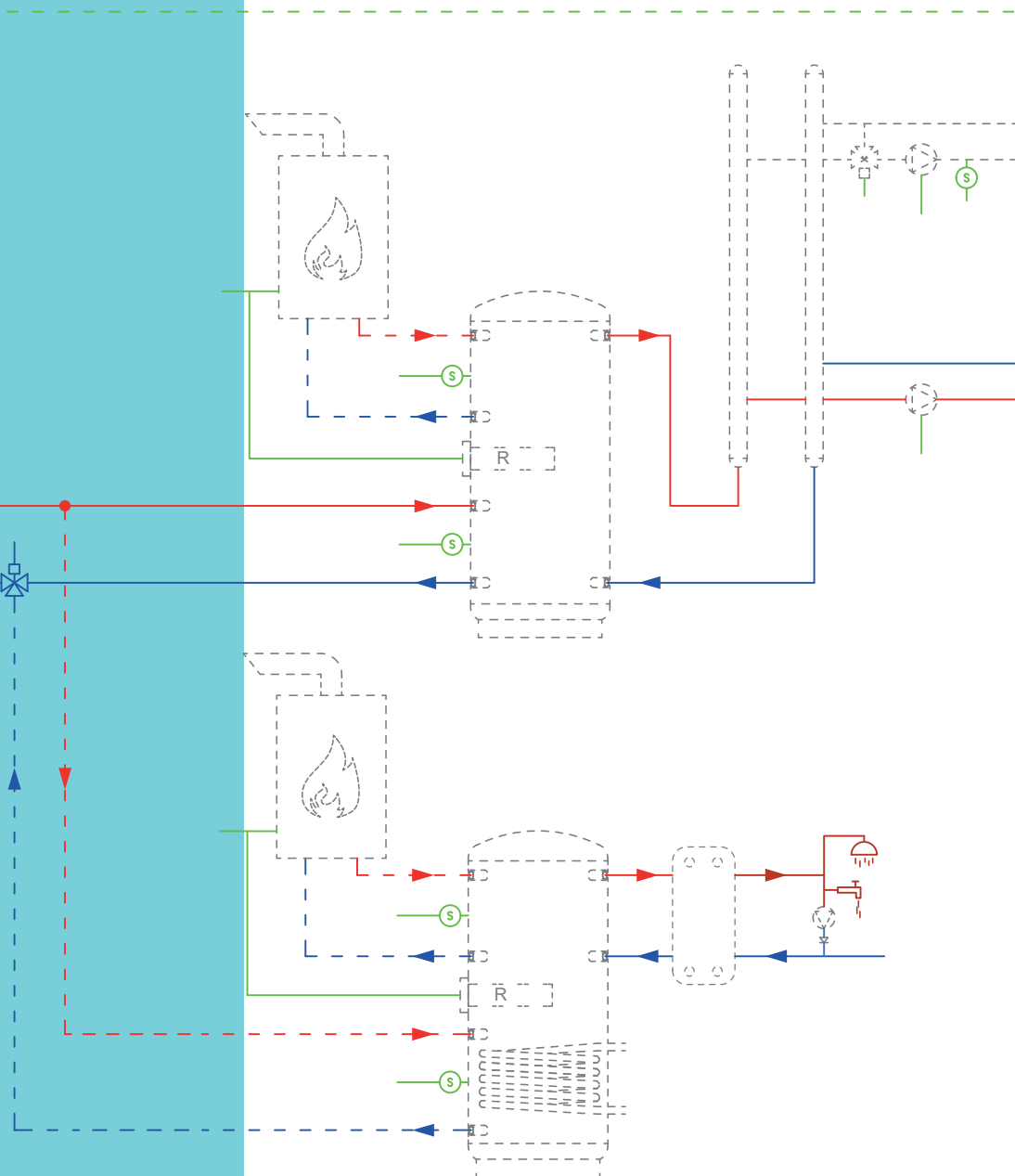
- Control up to 64 fan coils or terminals with on-board regulation in serial connection, possibility of activating other devices in parallel with the fan coil (radiant panels in heating mode or radiators)
- Fresh air consent for VMC, Heat recovery units and Air handling units (up to 5)

SYS-TO in 4-pipe systems allows system terminals and area pumps to be managed.



Compatible units

Fan coils: Idrowall (with dedicated serial cable), Brio-I Slim with advanced SLIM Touch regulation, Yardy and Diva via advanced LIT-Touch regulation, via bus.
Rhoss chillers, heat pumps and multi-purpose units, via bus.
VMC unit, heat recovery units with KRCA1 regulator, ADV Next Air and CTA ADVR air handling units via bus or digital input.



User interfaces and remote control via WEB

SYS-TO consists of a regulator (System Manager) to control room terminals (connected in serial mode) and to manage components in the field (through digital inputs and outputs) and from a user interface (HMI) available in various types.

The simplest interface consists of a semi-graphical LCD integrated in the regulator, to which a remote keypad with a backlit semi-graphical LCD display can be added.

The top of the range is the Touch Panel consisting of a resistive touch screen with a 7" TFT 16:9 -64 K colour recessed display installed on a support or wall-mounted, with a clean and innovative design and a lively and intuitive interface, complete with an Ethernet interface and USB port.

The Touch Panel is available with the Web APP option for remote control and monitoring through any Web browser with HTML5 support.

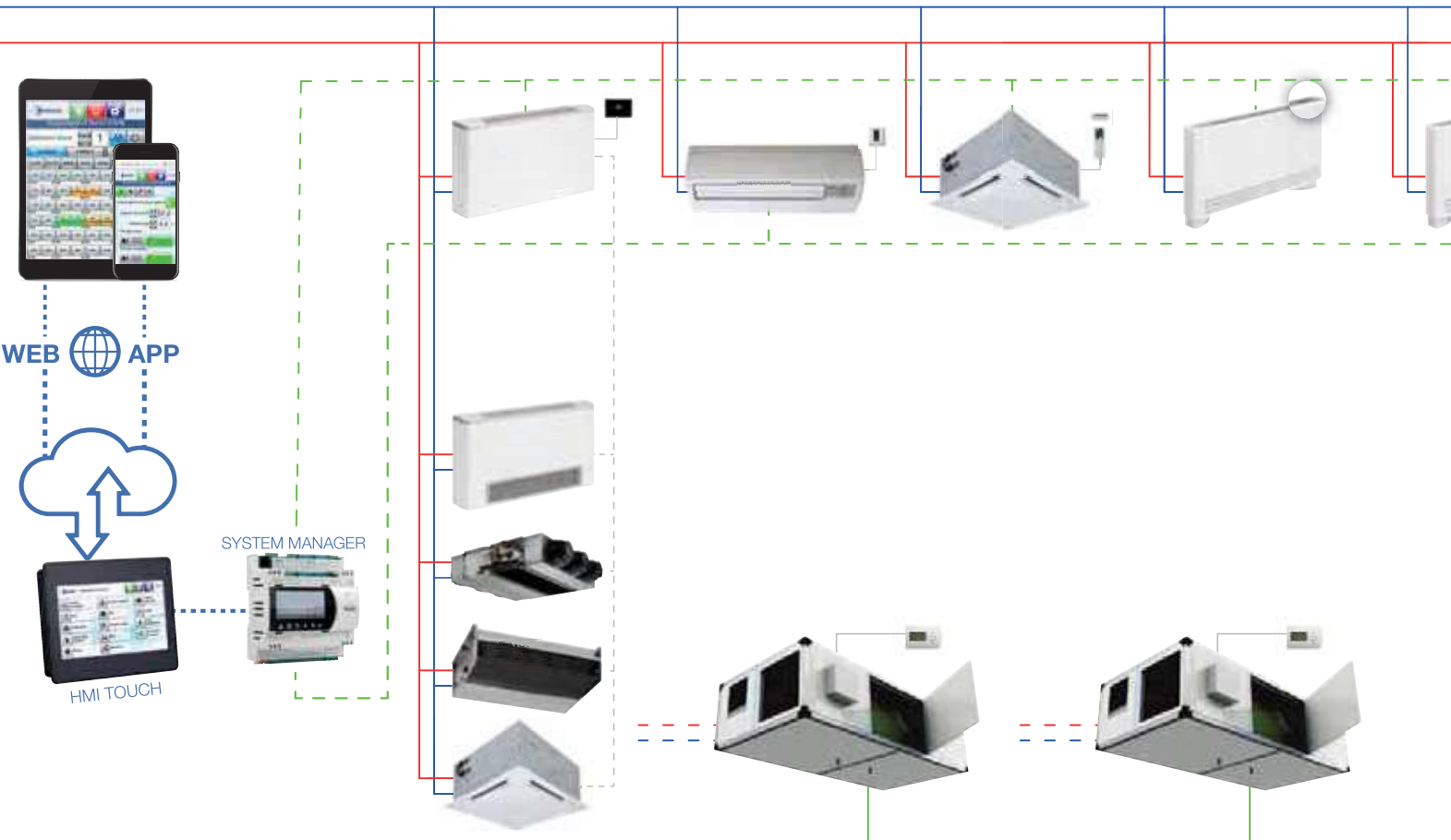
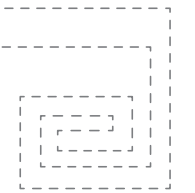
Solution with:	Integrated semi-graphical interface	Remotable semi-graphical interface	Touch colour interface	Touch colour interface and Web APP
Web APP				
HMI				
System Manager				

Serial network with simplified routing

An RS485 ModBus RTU serial interface is required on each connected device for connection via bus. Configuring serial addresses is extremely easy; it does not require additional devices but can be made directly from the control keypad of each fan coil.

Master/slave management

It is possible to connect multiple slave units with the same ambient set-point for each Master fan coil equipped with a control or receiver.



Control and monitoring via ETHERNET

RHOSS WEB SERVER



- Managing a single cooling unit via ETHERNET
- Web page with unit status and detailed tabs with:
 - synoptic of the main components
 - graphic trend of the main variables
 - possibility of modifying the main parameters (on/off, mode, set-point)
 - status and alarms reset
- Installation of the ethernet interface inside the unit's electrical panel

WEB SERVER MAIN FEATURES	MAIN COMPONENTS
Web page with unit status and detailed tabs displaying: <ul style="list-style-type: none"> - synoptic diagram of the main components - main variable trend graph - option to edit main parameters (on/off, mode, set) - alarm status and reset 	KWEBU1: Web Server board for Ethernet with user graphic interface

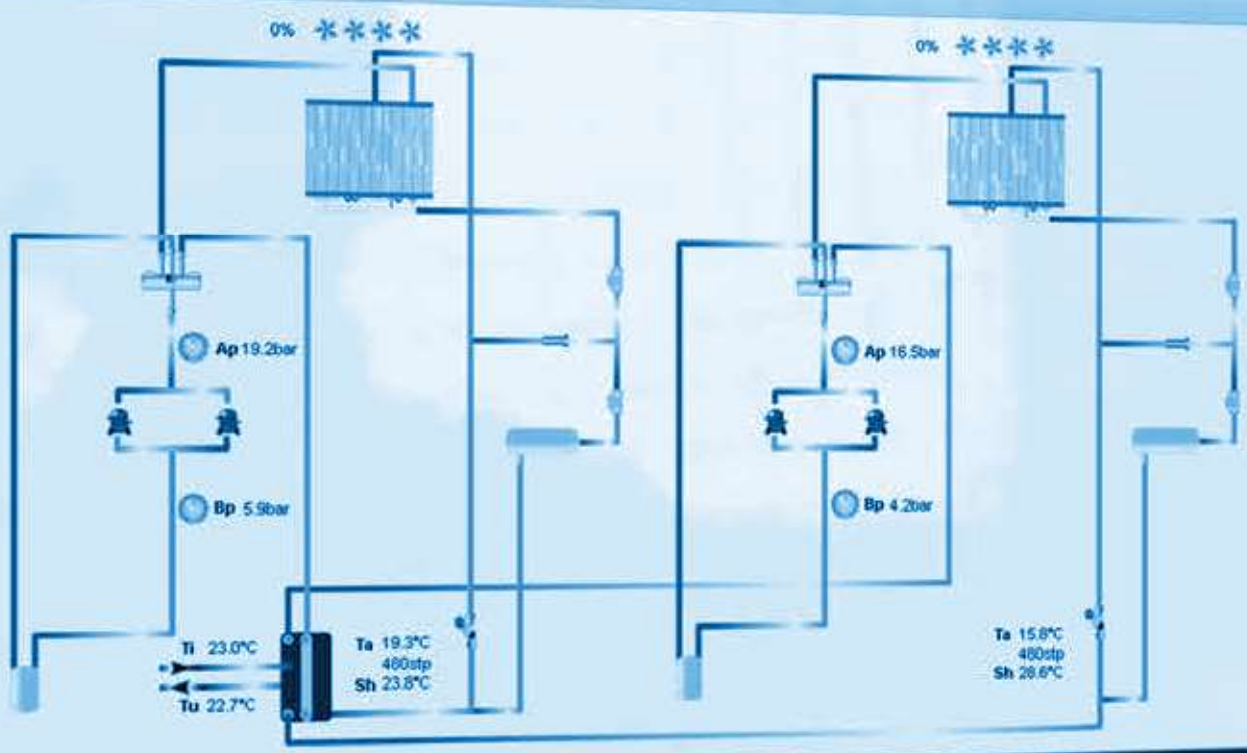
RHOSS COOLING UNIT + Web Server for Ethernet + User graphical interface



RH055

Stato unità: ON
Modo: Raffreddamento
Potenza richiesta: 100%

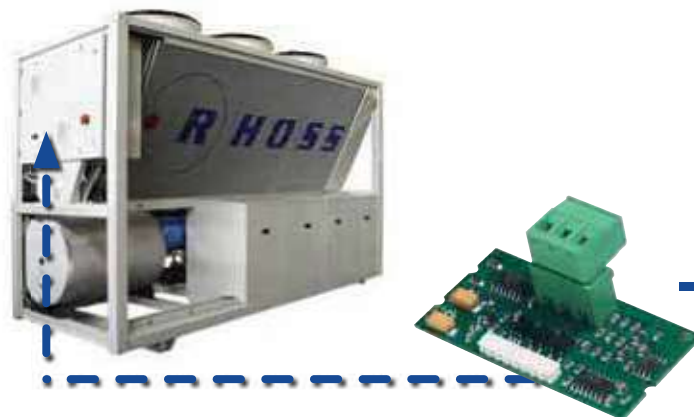
Generale Grafico Dati e impostazioni Allarmi



Remote monitoring

RHOSS MONITORING: Mobile - Cloud - Real time

- Remote control of cooling units and air handling units
- 3 different solutions for remote monitoring
- Connection via mobile phone or smartphone
- Web interface with Cloud service
- Status display in real time
- Data logger function
- Alarm and malfunctioning alerts
- Installation of the DIN bar on the device inside the unit's electrical panel





**RHOSS COOLING UNIT +
SERIAL INTERFACE**

MONITORING	MAIN FEATURES	CONTROL DEVICE	INTERNET CLOUD SERVICE	SIM CARD
MOBILE for residential and small-size service sector applications	Input/output management via mobile phone and editing by SMS . Alarm and malfunctioning alerts. Reading up to 8 values.		Not provided (only SMS management available)	
CLOUD for residential and service sector	Management of the main parameters and editing via internet interface or via APPS IOS and ANDROID. Alarm, malfunctioning display with hourly frequency and trend logs. Reading up to 8 values.	KMMC - Remote Mobile/Cloud control device with slot for SIM CARD	Internet Cloud service by subscription (minimum length 1 year)	Responsibility of the user or by subscription (not required if local Internet connection is used)
REAL TIME for the service and industrial sector	Management of the parameters and editing via internet interface or via APPS IOS and ANDROID. Real time alarm, malfunctioning display and trend logs. Reading up to 100 values.	KMRT - Real Time control device with slot for SIM CARD	Obligatory	



CONTROL DEVICE + SIM card

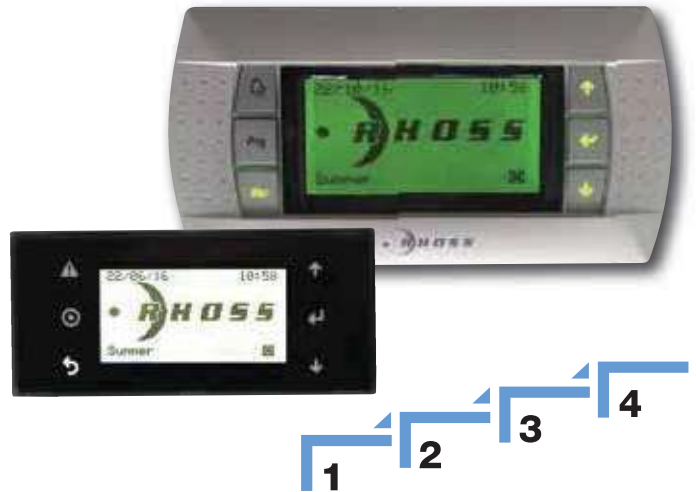


CONTROL DEVICE	Serial interface on Rhoss unit	Remotely manageable inputs/outputs	Monitorable Rhoss units	Readings
 <p>KMMC - Remote control device for Rhoss Monitoring Mobile or Cloud, installation on DIN bar (4 modules) within the unit's electric panel, slot for SIM CARD, status and inputs/outputs signalling LED, antenna with 3m cable, protection degree IP40, GSM dual band module 900-1800 MHz, Buffer battery (1 hour approximately); serial ports; Power supply not included.</p>	RS485 Serial interface (accessory KRS485 or SS)	<ul style="list-style-type: none"> • 2 relay outputs configurable and activated via SMS • 2 digital inputs for external alarms • 1 configurable analogue input (0-10 V, 0-20 mA, 4-20 mA) 	<p>1</p> <ul style="list-style-type: none"> • cooling unit • air handling units 	up to 8 readings
 <p>KMRT - Remote control device Rhoss Monitoring Real Time, installation on DIN bar (6 modules) within the unit's electric panel, slot for SIM CARD, 3 status signalling LEDs, antenna with 3m cable, protection degree IP40, GSM/GPRS Modem, serial ports; Watchdog hardware, Real Time Clock; Power supply not included. NOTE: the KMRT device is fitted with additional Ethernet interface for using local Internet connection (without SIM CARD).</p>	<ul style="list-style-type: none"> • RS485 serial interface (accessory KRS485 or SS) • Ethernet Interface (accessory KBE) [only if Ethernet is available on site] 	Not available	<p>5</p> <ul style="list-style-type: none"> • cooling unit • air handling unit 	up to a total of 100 readings

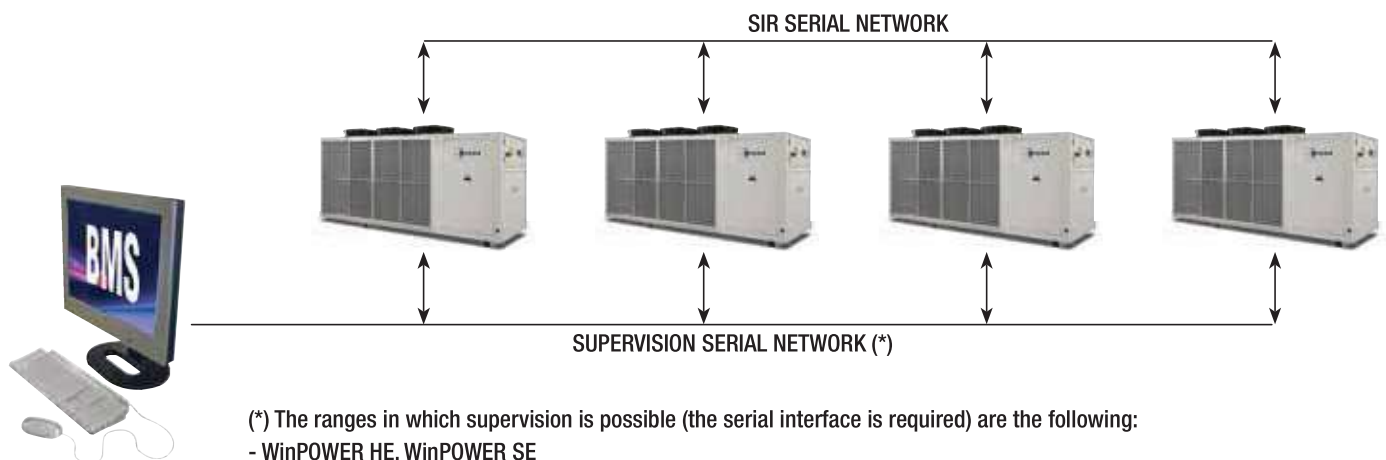
Chiller management software

SIR - RHOSS INTEGRATED SEQUENCER

- **MASTER/SLAVE management of up to 4 parallel plumbing chillers**
- **Summer/winter mode for heat pump units**
- **System set-point management**
- **Control of all operating parameters**



- The SIR integrated Sequencer makes it possible to manage up to 4 parallel plumbing chillers in medium/large HVAC systems.
- The optimisation of operating times and the insertion of the individual units is controlled by logics integrated in their management software, guaranteeing reliability over time.
- The software at the heart of the system was designed and tested by the Rhoss R&D structure and is able to acquire and manage the main variables of the connected water chillers.
- Depending on the product range, the units of the group can interface with the main BMS on the market, for them to be monitored, to guarantee full control of each type of system (verify the option in the product documentation).



(*) The ranges in which supervision is possible (the serial interface is required) are the following:

- WinPOWER HE, WinPOWER SE
- Z-Power
- Z-Flow HE, Z-Flow E
- FullPOWER HE, FullPOWER SE, FullPOWER VFD, FullPOWER VFD (1+i)
- TurboPOWER

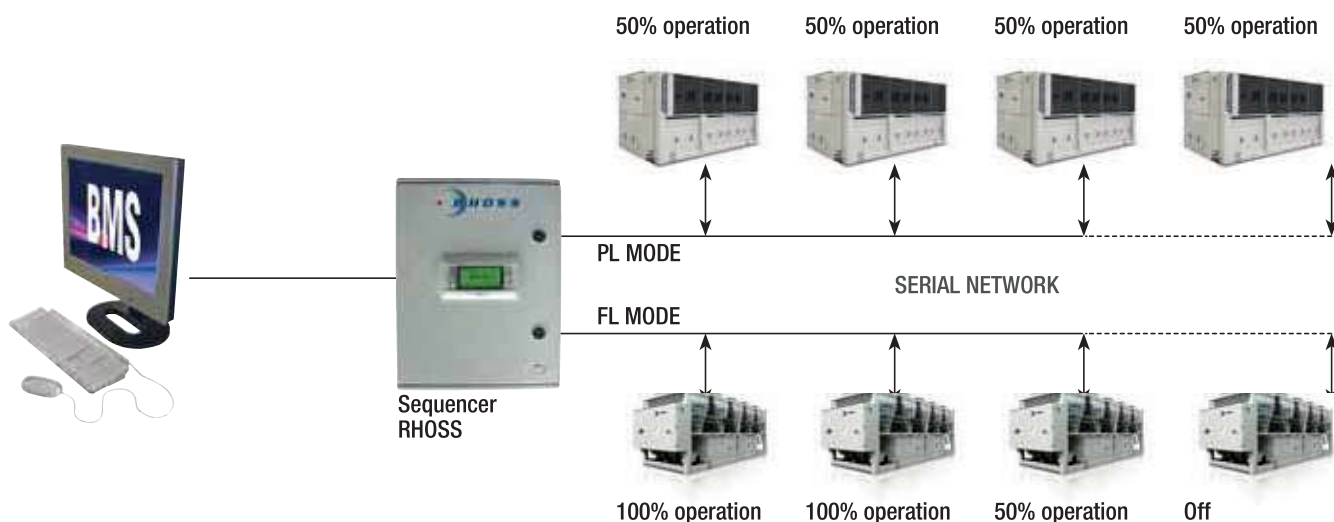
Water Chiller management software

RHOSS SEQUENCER

- **Control of up to 10 parallel plumbing chillers**
- **Summer/winter mode for heat pump units**
- **System set-point management**
- **Control of all operating parameters**
- **Alarm display**



- The Rhoss Multichiller Sequencer makes it possible to manage up to 10 parallel plumbing chillers in medium/ large HVAC systems.
- The optimisation of operating times and the insertion of the individual units is controlled by logics that focus on energy efficiency, guaranteeing reliability over time.
- The management mode of the units can be selected from between FL-Full Load Unit Manager (specific for screw compressor chillers) and PL-Part Load Unit Manager (specific for water chillers with scroll compressors).
- A dedicated sequencer is available for EXP multi-purpose units that can handle all the specific functions of the technology.
- The software at the heart of the system was designed and tested by the Rhoss R&D structure and is able to acquire and manage the main variables of the connected water chillers. The sequencer also interfaces with the main BMS available on the market, guaranteeing complete control in all system types. Integrated solutions for system management





NIBE GROUP MEMBER

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RHOSS S.P.A.
Via Oltre Ferrovia, 32 - 33033 Codroipo (UD) - Italy
tel. +39 0432 911611 - rhoss@rhoss.it
www.rhoss.it - www.rhoss.com

Italy Sales Departments:
Codroipo (UD)
33033 Via Oltre Ferrovia, 32
tel. +39 0432 911611

Nova Milanese (MB)
20834 Via Venezia, 2 - p. 2
tel. +39 039 6898394

RHOSS France
Bât. Cap Ouest - 19 Chemin de la Plaine - 69390 Vourles - France
tel. +33 (0)4 81 65 14 06 - exportsales@rhoss.it
www.rhoss.com

RHOSS Deutschland GmbH
Hölzlestraße 23, D-72336 Balingen, OT Engstlatt - Germany
tel. +49 (0)7433 260270 - info@rhoss.de
www.rhoss.com

RHOSS Ibérica Climatización, S.L.
Frederic Mompou, 3 Pta. 6ª Dpcho. B 1 - 08960 Sant Just Desvern – Barcelona
tel. +34 691 498 827 - rhossiberica@rhossiberica.com
www.rhoss.com