

Comby-Flow EXP Range TXHEY 105÷112

Cooling capacity: 5.4÷12 kW - Heating capacity: 6.5÷14.5 kW



EXP SYSTEMS
Excellence in Polyvalent technology



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

Construction features

- Compressor: hermetic, rotary Scroll compressor, complete with thermal protection.
- Primary side heat exchanger (user), secondary side exchanger (recovery) and disposal unit: adequately insulated stainless steel plates, complete with antifreeze electric heater and water flow differential pressure switch.
- Control: microprocessor electronic control, iDRHOSS compatible, with Adaptive Function logic.
- Condensation control: pressure switch valve and bypass solenoid valve.
- Structure: in galvanised and painted sheet steel with polyester powder coating, complete with soundproofed compressor compartment.

Models

- TXHEY: standard EXPsystems unit.

PUMP unit

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

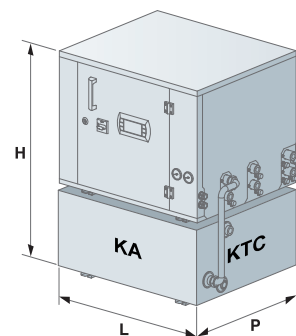
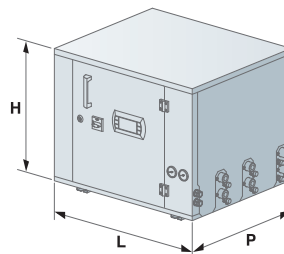
- Secondary side (recovery): pumping group complete with circulation pump, membrane expansion tank, safety valve, water drain valve, manual air bleed valve, pressure gauge.

FACTORY FITTED ACCESSORIES

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

ACCESSORIES SUPPLIED LOOSE

- Water buffer tank
- Buffer connection pipes
- Water filter
- Antivibration rubber mountings.
- Antifreeze electric heater on the buffer tank.
- Remote keyboard with display.
- Clock card
- Serial interfaces for connection to BMS (proprietary protocol, Modbus RTU, LonWorks).
- Serial converters (RS485/RS232, RS485/USB) in the case of centralised unit management.
- Serial interface (CAN-bus - Controller Area Network) for the iDRHOSS system.
- GSM 900/1800 modem kit for remote unit management.
- RHOSS supervision software for unit monitoring and remote management.





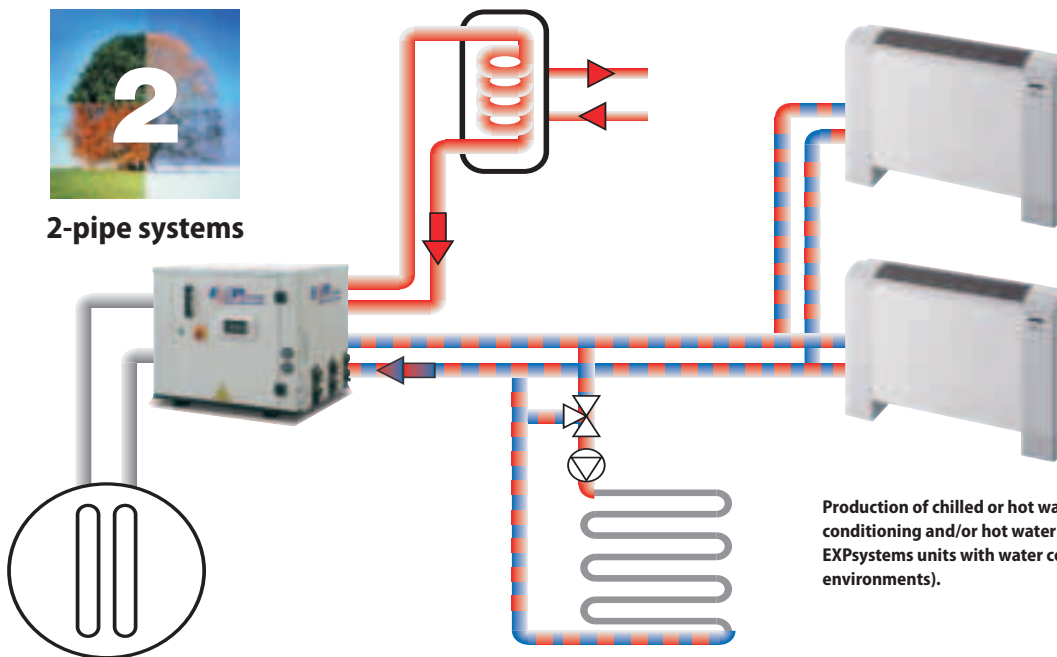
TXHEY P MODEL		105	107	109	112
❶ Nominal cooling capacity (AUTOMATIC 1)	kW	5,4	6,8	9,3	12,0
❷ Recovery heating capacity (AUTOMATIC 2)	kW	6,7	8,7	11,3	14,5
❸ Nominal heating capacity (SELECT 1-2 AUTOMATIC 3)	kW	6,5	8,2	10,8	13,9
❶ Total absorbed power (*) (AUTOMATIC 1)	kW	1,56	2,12	2,74	3,60
❷ Total absorbed power (*) (AUTOMATIC 2)	kW	2,00	2,83	3,57	4,75
❸ Total absorbed power (*) (SELECT 1-2 AUTOMATIC 3)	kW	2,04	2,88	3,54	4,38
❷ C.O.P. (AUTOMATIC 2)		5,72	5,14	5,42	5,67
❶ Sound pressure level	dB(A)	49,1	51,1	51,3	53,1
Scroll/step compressor	No.	1	1	1	1
Circuits	No.	1	1	1	1
Water buffer tank content KA	l	20	20	30	30
❶ Nominal available head pressure at pump on main exchanger	kPa	47,0	54,7	82,2	78,2
❷ Nominal available head pressure on secondary recovery exchanger	kPa	32,4	42,4	72,1	66,7
Main 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 WEIGHTS		105	107	109	112
W - Width	mm	585	585	660	660
H - Height TXHEY P	mm	535	535	535	535
H - Height TXHEY P + KA	mm	855	855	855	855
D - Depth	mm	520	520	560	560
Weight TXHEY	kg	112	118	122	130
Weight KA	kg	38	38	43	43

In the following conditions:

- ❶ Condenser water: 30/35°C - Chilled water: 7/12°C.
- ❷ Chilled water: 7/12°C - Regenerator water: 40/45°C
- ❸ Evaporator water: 10°C - Water flow rate as in summer operation. Hot water 40/45°C.
- ❹ At 1 m from the unit in free field (Q = 2).

(*) Unit without pumps.

KA = Water buffer tank.
KTC = Connection pipes.



WATER CHILLERS
HEAT PUMPS
AIR cooled
AXIAL fans

WATER CHILLERS
HEAT PUMPS
AIR cooled
CENTRIFUGAL fans

WATER CHILLERS
HEAT PUMPS
WATER cooled
CONDENSERLESS UNITS

INDUSTRIAL &
PROCESS COOLING

EXP
Polyvalent systems

CONDENSING UNITS

SYSTEM ACCESSORIES

FAN COIL UNITS

TERMINAL UNITS