

Digitemp^{EV}



Water cooled thermochillers

Range: 091/092 - 161/162 - 221/222 - 381/382 - 501/502

Refrigerant: R410A - Cooling Capacity: 9 to 50 kW

Heating Capacity: 6 to 36 kW

Benefits:

- **Flexible operation** providing water from 5°C to 90°C to each single circuit (in the dual pump configuration the unit controls the process allowing two different working temperatures);
- **Reduced energy utilization** performed by the digital scroll compressor, that allows to modulate the power from 10% to 100%, saving more than 35% of absorbed electrical energy compared to the standard on/off units;
- **Precise temperature control** obtained with the use of: electronic expansion valve, digital Scroll, PLC controller (high precision +/- 0.3°C);
- **Reduced running costs** ensured by the integral free cooling feature;
- **High efficient heat exchange**, braised plate evaporator and condenser in AISI316 stainless steel;
- **Long life and reliability**;
- **Compact design**;
- **Easy to use HMI**, clear display of water temperatures and alarms;



DigitempEvo is the new flexible solution developed for industrial processes of heating and/or cooling. It integrates both temperature control and free-cooling functions, providing accurate water temperature, pressure and flow rate to every single circuit. The traditional centralized cooling system concept (chiller + TCU) is replaced by the newly introduced Flexcool solution, with one DigitempEvo dedicated to each user coupled with outdoors free cooling

capabilities. State of the art design and technical characteristics make DigitempEvo highly performing and flexible to each situation.

Technical Features:

- Integral free-cooling
- Digital scroll compressor
- Braised plate evaporator and condenser
- Medium and high pressure pumps
- Single or double circuit with independent temperatures



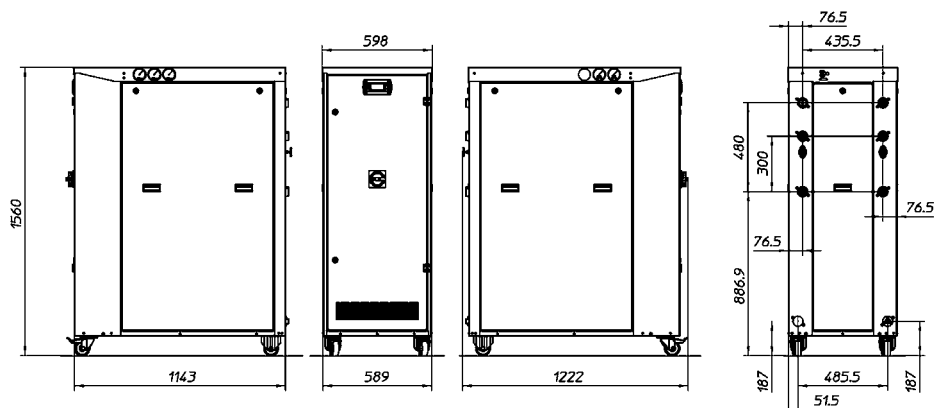
Aquatech

A Piovani Company

aquatech.piovan.com

Options:

- Free-cooling kit
- Heating kit
- Condensation control
- Serial interface board
- Phase sequence control
- PROFIBUS serial interface board
- Water filter 500 microns 1"
- Acoustic visual alarm



TECHNICAL DATA		DTE 09	DTE 16	DTE 22	DTE 38	DTE 50
Cooling capacity	KW	9,8	17,4	23,2	38,7	50,4
Compressor absorbed power *	kW	1,9	3,4	4,7	7,2	10
Condenser heat load	KW	11,5	20,6	27,7	45,4	59,8
Condenser water flow	m³/h	2,0	3,5	4,8	7,8	10,3
Evaporator water flow	m³/h	1,7	3,0	4,0	6,7	8,7
Evaporator pressure drops	kPa	35,4	42,7	45	45,5	44,6
Condenser pressure drops	kPa	48,2	57,2	63,8	108,5	81
EER		5,14	5,05	4,92	5,38	5,05
Maximum heating power	kW	12	24	24	36	36
Height	mm	1560	1560	1560	1560	1560
Width	mm	598	598	598	598	598
Lenght	mm	1143	1143	1143	1143	1143
Refrigerant charge	kg	1,3	1,9	2,3	3,75	5,05
Oil charge	l	1,24	1,89	1,77	3,25	3,25
Min/Max evaporator water flow	m³/h	0,45/9	0,75/9	1,29/9	2,13/16,8	2,76/16,8

Data are referred to In/Out evaporator water temperature 15/10°C, In/Out condenser water temperature 30/35°C