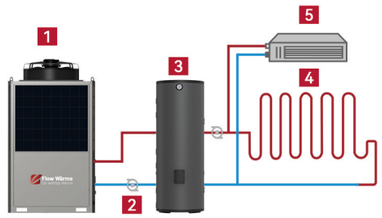
DualTherm B Range

TECHNICAL SPECIFICATIONS

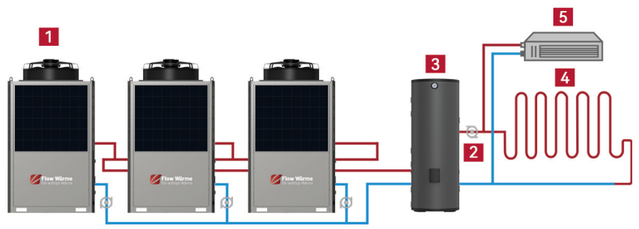
■ Model		FW-70CHIL	FW-140CHIL
Function		Cooling&Heating	
Technology		Full INVERTER/WIFI included	
Control		7-inch Touch Screen	
Operating ambient temp.	℃	-15~45	
Power supply		380-415V,3N~,50Hz	
Heating temperature range	℃	8~55	
Cooling temperature range	℃	10~35	
Energy efficiency class(35/55℃)		A+++/A++	A++/A++
Refrigerant Type		R32	
Refrigerant charge volume	g	5200×2	5200×4
Heating: (Outdoor Temp. 7°CDB/6°CWB, Water 40/45°C)	Heating capacity** (kW)	34.59~71.30	67.50~140.00
	Power input(kW)	10.12~21.61	18.93~42.40
	COP(W/W)	3.30~3.42	3.30~3.57
Cooling: (Outdoor Temp. 35°CDB/24°CWB, Water 12/7°C)	Cooling capacity* (kW)	29.02~65.80	59.60~130.50
	Power input(kW)	8.93~22.69	17.60~43.90
	EER(W/W)	2.90~3.25	2.97~3.39
CO2 Equivalent	TON	7.02	14.04
Operation Pressure (High)	MPa	4.5	
Operation Pressure(Low)	MPa	1.6	
Max input power	kW	30	61.2
Max input current	A	48	98
Sound level @1m	dB(A)	70	80
Fan type		EC fan	
Fan quantity		1	2
Advised water flow	m^3/h	≥11	≥22
Net dimension (L*W*H)	mm	1253*1075*2250	2210*1100*2250
Packaging dimension (L*W*H)	mm	1325*1145*2395	2280*1170*2395
Net weight	kg	445	819
Load qty(40HQ)	PCS	18	10

* Under normal cooling conditions at outdoor temperature 35°CDB/24°CWB. Outlet water temperature 7°C, inlet water temperature 12°C . Pump input not included, per EN14511.
** Under normal heating conditions at outdoor temperature 7°CDB/6°CWB. Outlet water temperature 45°C, inlet water temperature 40°C. Pump input not included, per EN14511.
**The above data is for reference only.For more specific data, check the appliance's characteristics plate.

Application Connection Diagram



Single-Unit Installation



Multi-Unit Parallel Installation

1 Heat pump 2 Water pump 3 Buffer tank 4 Floor heating equipment 5 Fan coil

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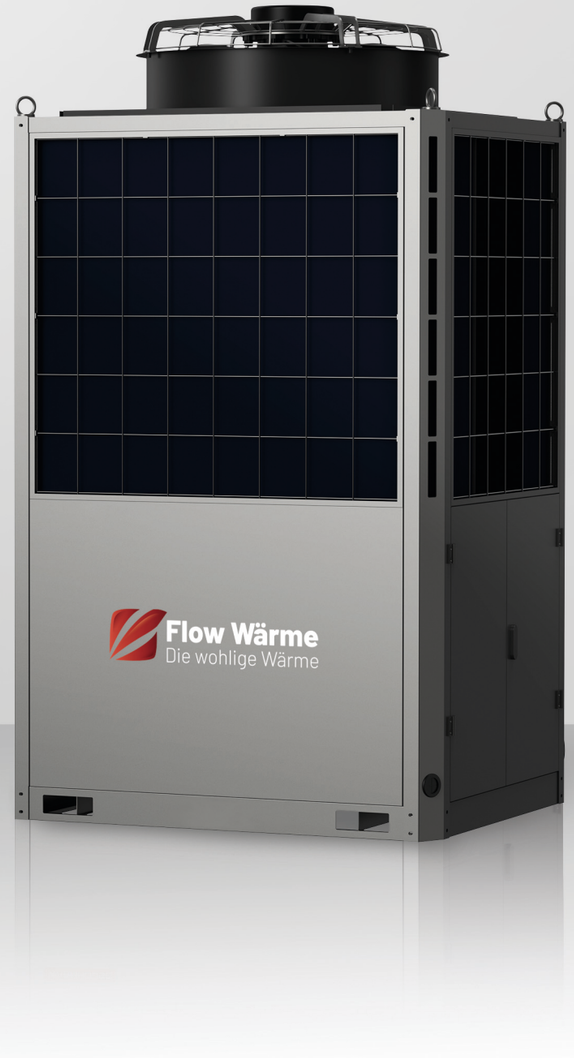
DUALTHERM B RANGE
COMMERCIAL-USE

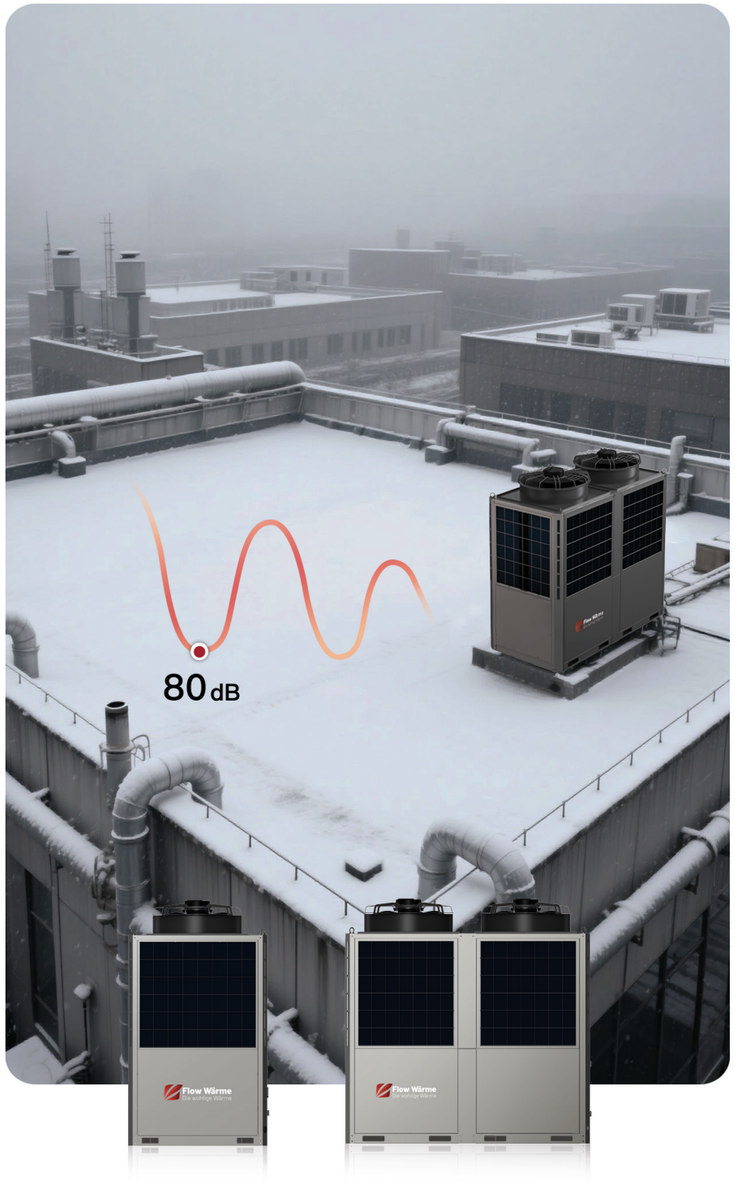
R32

DUALTHERM SERIES

COMMERCIAL-USE HEAT PUMP

Eco-Friendly R32 Refrigerant /Automatic Defrost Technology
High-Performanoe EC Fan / SWEP Plate Heat Exchanger





Automatic Defrost Technology

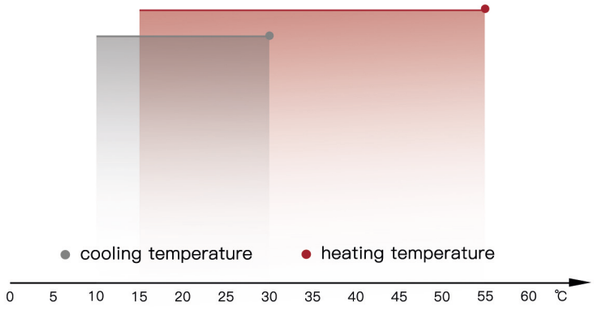
Advanced defrost technology optimizes the defrost cycle to reduce energy consumption and maintain continuous operation in low-temperature (down to -15°C) environments,ensuring both efficiency and the long-term reliability of the system.

Eco-Friendly R32 Refrigerant

Utilizing R32 refrigerant with a Global Warming Potential (GWP) one-third that of traditional R410A, this heat pump significantly reduces its environmental footprint, while maintaining high efficiency and excellent performance.

Wide Operating Range

Designed to provide exceptional flexibility across diverse applications, the system offers a water cooling temperature range from 10°C to 30°C and a water heating temperature range from 15°C to 55°C, ensuring reliable performance in a wide array of environmental conditions.



Unique Modular Approach

• Flexible • Scalable • Efficient

The innovative modular design not only minimizes space requirements but also simplifies logisties and installation. This flexible solution allows for easy scalability, supporting future expansion as your demands evolve.

High-Performance EC Fan

Our high-efficiency EC fans are designed to optimize airflow and enhance heat dissipation, contributing to superior performance. With a focus on long-lasting durability, these fans help maintain energy efficiency without compromising on reliability.

Twin Rotary Compressor

The fully enclosed design ensures robust durability,minimizes vibration, and is tailored for high-demand commercial and industrial applications.

SWEP Plate Heat Exchanger

This advanced solution enhances heat transfer efficlancy,minimizes pressure drop, and ensures stable operation under varying load conditions.

Color Controller Screen & Wi-Fi Connectivity

The intuitive 7-inch color controller provides a user-friendly interface, while the integrated Wi-Fi connectivity enables seamless remote monitoring and operation.