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Derk reserves the right to change the specifications of the product, and to withdraw or replace products without prior notification or public announcement. Derk is constantly developing and improving its products

CHILLER & HEAT PUMP

CE

RoHS

REACH





DERK is a German HVAC brand with 26 years of manufacturing excellence since 2000. Our fully vertically integrated facility achieves 100% in-house production of all core components — sheet metal processing, precision injection molding, automated stamping, and national-standard R&D testing laboratories. With an annual capacity of 1,000,000 FCU units, delivering HVAC products with high thermal efficiency and environmental comfort for global customers.

26 years

Years HVAC Experience

100%

Full-process QC

70,000m²

Modern Factory

1,000.000+

Annual Production Capacity

Products Overview

Products Features

Item		Air-cooled Scroll Chiller			Mini chiller	Heat Pump Water Heater	
		T1	T1+Heat recovery	T3		Standard temp.	Ultra-low temp.
Power supply		380V-415V 3N~50Hz			220V-240V 50/60Hz / 380V-415V 3N~50/60Hz	220V-240V 50/60Hz / 380V-415V 3N~50/60Hz	
Capacity (kW)		35~260	65~130		12~38	10~40	20~400
Efficiency		Max. EER 3.37 COP 4.28			Max. EER 3.53 COP 3.67	Max. COP 4.57	
Max. Parallel		16 units(35/65/130kW) 8 units(260kW)			8 units(12/14/16/22/24/26/28/30kW) 4 units(18/20/34/36/38kW)	16 units(10/20/40/100/200kW) 8 units(400kW)	
Compressor		Copeland scroll (fixed)			GMCC DC inverter	Fixed/DC inverter	EVI Inverte/ EVI scroll (Fixed)
Motor		AC motor			DC motor	AC motor	
Fan		Low noise axial fan			Low noise axial fan	Low noise axial fan	
Air side heat exchanger		Fin-coil			Fin-coil	Fin-coil	
Throttling Mode		EXV+ capillary			EXV	EXV	
Water side heat exchanger		Coaxial(for 35kW only)/Shell & tube			Plate type	Tube-in-tube	
Water pipe connection type		Flange			Male thread	Male thread(for 10~40kW)/ Flange(for 100~400kW)	
Noise dB(A)		Min.61			Min.55	Min.52	
Ambient temp.℃	Cooling	-10~48	15~48	15~54	5~54	/	
	Heating	-15~24			-25~25	-15~46	-35~46
Leaving water tempe.℃	Cooling	0~17	5~17	5~17	5~20	/	
	Heating	30~50			25~60	20~55(Default:50)	
	Hot water supply range	/	30~50	/	/	/	

Note: Antifreeze shall be added when the outlet water temperature drops below 5℃.

❄️ Air Cooled Scroll Chiller

Free Modular Combination · 35kW ~ 2,080kW



▶ Workable ambient temperature -10℃ to 48℃ (T3 up to 54℃); leaving water 0℃ to 50℃.

High-efficiency

High-efficiency Components



High-efficiency Performance

Intelligent Fast Defrost

Alternate Defrost Tech

Intelligent Anti-Freeze Protection

Dual Independent Refrigeration Systems

Intelligent Rotation Operation

Back-up Function

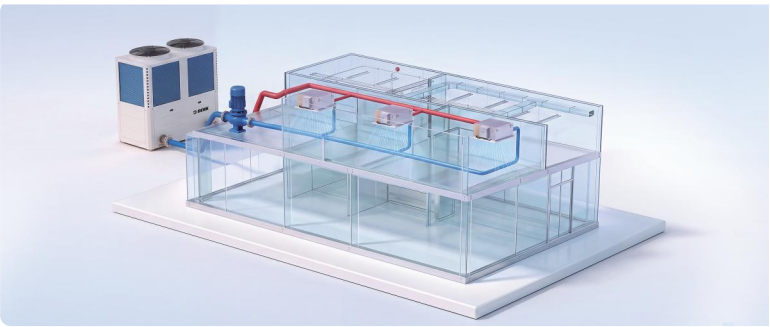
32-Step Capacity Control

10+ Automatic Protections

Smart Control

- ▶ Centralized touch control
- ▶ APP control
- ▶ BMS integration via modbus
- ▶ Intelligent microprocessor control
- ▶ Multi-level password protection
- ▶ Weather curve function
- ▶ Linkage & remote control functions

Working Diagram



Convenient Installation

Design Highlight:

U-shaped heat exchanger reduces footprint by 49%

DERK modular chiller

Others

Floor area reduced by 49%

Note: 130 kW modular chiller is used for comparison.

Flange water connection:

Only piping on site | Built-in water flow switch, no extra installation

Flange connection

 Air Cooled Scroll Chiller

Appearance Colour Options



White X Blue



White X Golden



Gray X Blue



Gray X Golden

Fixed-speed, T1

Model	Cooling (kW)	Power (kW)	EER	Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DC-F35SDA	30	9.26	3.24	33	10.15	3.25	62	1000x1900x960	260
DC-F35SDB	32	10.53	3.04	33	10.40	3.17	61	1470x1085x750	240
DC-F65SDA	65	19.40	3.35	70	20.29	3.45	63	1995x1900x960	530
DC-F65SDB	65	19.29	3.37	70	20.23	3.46	63	1995x1900x960	568
DC-F130SD	130	38.92	3.34	140	40.46	3.46	68	2200x2370x1120	890
DC-F260SD	260	82.28	3.16	280	87.77	3.19	72	2700x2370x2200	1740

Note: DC-F35SDA and DC-F65SDA are one-circuit models; all other models are two-circuit.

Fixed-speed, T1 Heat Recovery

Model	Cooling (kW)	Power (kW)	EER	Heating (kW)	Power (kW)	COP	Heat Rec. (kW)	Noise dB(A)	Dimensions W × H × D (mm)	Net Weight (kg)
DCR-F65SA	65	19.95	3.26	86	20.10	4.28	82.50	63	1995x1890x960	560
DCR-F130S	130	39.52	3.29	149	41.00	3.63	143.00	68	2200x2370x1120	960

Fixed-speed, T3

Model	Cooling1 (kW)	Power1 (kW)	EER 1	Cooling2 (kW)	Power 2 (kW)	EER2	Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions L × W × H (mm)	Net Weight (kg)
DC-F65STD	67	20.36	3.29	57.5	24.75	2.32	72	22.02	3.27	63	1995 × 960 × 1900	608
DC-F130STD	132	40.99	3.22	110.7	54.03	2.05	144	44.44	3.24	68	2200 × 1120 × 2370	896

Note:

1.Test condition in cooling 1: Water inlet/outlet temperature12/7°C; outdoor ambient temperature 35°C DB.

.Test condition in cooling 2: Water inlet/outlet temperature12/7°C; outdoor ambient temperature 46°C DB.

2. Test condition in heating: Water inlet/outlet temperature 40/45°C; outdoor ambient temperature 7°C DB/6°C WB.

3. Specifications may change without notice. Contact sales for the latest version.

 Full DC Inverter Mini Chiller

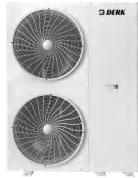
Modular Expansion —Up to 8 in Parallel, Max. 240 kW



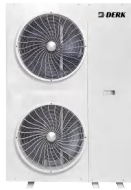
12/14/16kW



18/20kW

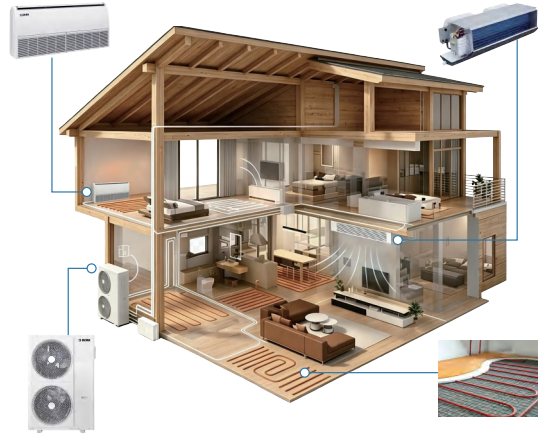


22/24/26/28/30kW



34/36/38kW

High Efficiency



Ultra Wide Operating Range: -25°C ~ 54°C

EER up to 3.53 · COP up to 3.67

Integrated Hydraulic Module (12~30kW)

Compact Footprint

Intelligent Climate Curve

Single-Phase Series, 220 – 240V~ 50/60Hz

Model	Cooling (kW)	Power (kW)	EER	Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DMC-V12N1T	12	3.66	3.28	14	4.09	3.42	55	1040x850x410	104
DMC-V14N1T	14	4.48	3.13	16	4.82	3.32	57	1040x850x410	105
DMC-V16N1T	16	5.43	2.95	18	5.57	3.23	58	1040x850x410	106

Three-Phase Series, 380 – 415V 3N~ 50/60Hz

Model	Cooling (kW)	Power (kW)	EER	Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DMC-V18SN1T	18	5.44	3.31	20	5.80	3.45	58	940x1365x370	116
DMC-V20SN1T	20	6.19	3.23	22	6.57	3.35	60	940x1365x370	116
DMC-V22SN1T	22	6.23	3.53	24	6.54	3.67	55	1190x1550x410	215
DMC-V24SN1T	24	6.92	3.47	26	7.20	3.61	58	1190x1550x410	215
DMC-V26SN1T	26	7.76	3.35	28	7.88	3.55	63	1190x1550x410	215
DMC-V28SN1T	28	8.68	3.23	30	8.58	3.50	64	1190x1550x410	215
DMC-V30SN1T	30	9.62	3.12	32	9.42	3.40	64	1190x410x1550	215
DMC-V34SN1T	34	11.97	2.84	42	12.35	3.40	64	1230x1745x450	230
DMC-V36SN1T	36	12.96	2.78	45	13.37	3.37	64	1230x1745x450	230
DMC-V38SN1T	38	13.87	2.74	48	14.54	3.30	64	1230x1745x450	230

Note:

1.Test condition in cooling 1: Water inlet/outlet temperature12/7°C; outdoor ambient temperature 35°C DB.

2. Test condition in heating: Water inlet/outlet temperature 40/45°C; outdoor ambient temperature 7°C DB/6°C WB.

3. Specifications may change without notice. Contact sales for the latest version.

Air Source Heat Pump Water Heater

Ultra-low Temperature Heat Pump Water Heater

Modular Expansion—Up to 16 in Parallel, Max. 640 kW

Stable hot water supply from -15 °C ~ 46 °C workable ambient temperature; still delivers 55 °C hot water at 5 °C for year-round comfort.



High Efficiency · Stable & Reliable · Compact · Smart

DC Inverter Technology

25~100% capacity modulation, up to 50% energy saving.

High Efficiency

COP up to 4.42



Smart Control

- Auto restart after power failure
- Stable water temperature
- Weekly timer
- Intelligent cascade rotation.



Side Air Discharge Design

Slim side intake/discharge cabinet needs no top clearance.

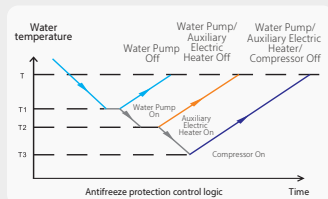
Compact

400 mm wide (40 kW), footprint only 0.448 m²;



Stable & Reliable

- 10+ protection functions
- Intelligent antifreeze
- Refrigerant cooling PCB
- Low noise defrost.



Compact design



Fixed Speed, T1

Model	Water Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DH-F10	9.6	2.17	4.42	58	960x810x370	86
DH-F20S	19.5	4.41	4.42	60	1040x850x410	94

DC Inverter, T1

Model	Water Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DH-V10	11	2.53	4.34	58	1040x850x410	79
DH-V20	21	4.87	4.31	60	1040x850x410	95
DH-V20S	21	4.87	4.31	60	1040x850x410	96
DH-V40S	41	9.53	4.30	63	1120x1560x400	161

Notes:

1. Test condition: Water inlet/outlet temperature 15/55°C; outdoor ambient temperature 20°C DB/15°C WB.
2. Specifications may change without notice. Contact sales for the latest version.

Modular Expansion—Up to 16 in Parallel, Max. 3200 kW

Heating down to -35 °C · hot water up to 55 °C · built for harsh cold-climate regions.



High Efficiency · Stable & Reliable · Smart

EVI Scroll Compressor

Enhanced vapor injection scroll compressor gives reliable heating even at -35 °C.

900 mm large-Diameter CFD Fan

Cuts noise and extends service life.



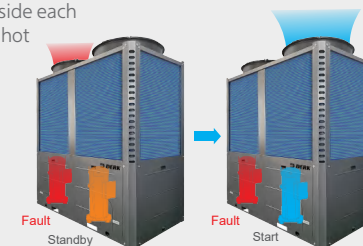
Anti-frost Components

- Approx. 3 m air side heat exchanger + high efficiency internally grooved copper tubing with approx. 500 m total length
- Hydrophilic anti-frost fins
- Tube-in-tube water heat exchanger



Multi-level Backup Protection

Dual compressor backup inside each unit ensures uninterrupted hot water supply.



Smart Control

- Time based water temperature scheduling
- Modbus BMS
- Intelligent cascade control.



EVI Inverter, Ultra-Low Temperature

Model	Water Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DH-EV20SD	21	4.73	4.44	52	1040x850x410	105
DH-EV40SD	38	8.32	4.57	54	1120x1560x400	169

EVI Scroll, Ultra-Low Temperature (Large Capacity)

Model	Water Heating (kW)	Power (kW)	COP	Noise dB(A)	Dimensions W × H × D(mm)	Net Weight (kg)
DH-E100SD	98	22.46	4.36	68	1995x1890x960	535
DH-E200SD	195	45.06	4.33	70	2200x2370x1120	940
DH-E400SD	390	90.74	4.30	72	2700x2370x2200	1830

Notes:

1. Test condition: Water inlet/outlet temperature 15/55°C; outdoor ambient temperature 20°C DB/15°C WB.
2. Specifications may change without notice. Contact sales for the latest version.