



Century

PRODUCTS GUIDE

HVAC & R PRODUCT INTRODUCTION

株式會社 世紀
CENTURY CORPORATION

DEHUMIDIFIER

High Quality Nature System

Application

- High functioning storage, museum, electronics & telecommunication equipment room, herbal medicine storage, clothes shop, library, cosmetics production line, powdered foods factory
- Small/Medium storage, underground commercial facility, cultural heritage storage, record and document storage, bookstore, pharmaceutical company, coffee company, printing factory, glass production line, transformer room, convention center, locker room for winter sports stadium, pottery storage, changing and drying rooms for Korean dry sauna
- Warehouse, paper mill storage, dry and cold food, metal, electronic components, telecommunications equipment room, power plant, paint, chemicals, dried fish, nut products, traditional fermented food, charnel house, military base depot, weapons and ammunition storage, working and drying in large shipyards, high and low temperature dehumidified facility
- Study room, nursery, reading room, dressing room, house, toilet, kitchen, studio apartment, Internet cafe, underground facility, karaoke, church, hospital
- Best solution for storing and preserving of products on production line and distribution and logistics throughout the year, especially in rainy seasons



| Smart and active display

- Clear LED panel, user-friendly touchscreen, refined design.
- Remote-controlled ON/OFF
- Built-in LOCK switch



- Clear LED panel, user-friendly touchscreen, refined design.
- Remote-controlled ON/OFF
- Can be used as cooler, heater, dehumidifier, chiller



※ First large electric dehumidifier in Korea to acquire test certificates
(Passed standard conditions, overload conditions,
low-temperature conditions and dehumidifier efficiency standards)

Feature

- Elegant design and color that suits various spaces
- Slim in shape; Maximized dehumidification with 3-step wind control
- Sophisticated and clear FND display
- Smart touchpad control panel and remote control for simple operation
- Self-diagnosis feature of displaying error codes in case of malfunction
- Auto-regulation of wind according to humidity and environment
- Built-in optimization system that deals with humidity/temperature changes
- Scroll compressors with high efficiency, high power, high function and low noise
- Built-in ducts available in different sizes
- Customized design solution offered for duct type and high flow rate
- Patented Hybrid Spatial Dehumidifier for maximum utilization of space and for energy regeneration
- Patented constant temperature air cleaning dehumidifier that also functions as cooler



Effect & Benefits

- Maintains dry and fresh environment
- Prevents humidity from causing corrosion
- Prevents mold to secure hygienic environment
- Removes odor and keeps cleanness by preventing decomposition
- Safely preserves products by preventing condensation
- Financial benefit, operation cost reduction
- Qualitative manufacturing process, prevents product damage
- Establishes trust with clients, enhances company reputation

※ Product specifications and data in this catalog may change without any prior notice in order to enhance quality and safety of the product.

Simplified computation of dehumidification load(based on KSC9316)

※ The content below is mostly applicable to small space or family use. For industrial or commercial use, detailed conditions of dehumidification load should be reviewed then computed.



Multi-family house	$0.24(\text{L}/\text{dm}^3) \times \text{room area}(\text{m}^2) = \text{dehumidification load}(\text{L}/\text{d})$
Single-family house	$0.315(\text{L}/\text{dm}^3) \times \text{room area}(\text{m}^2) = \text{dehumidification load}(\text{L}/\text{d})$
Timber house	$0.039(\text{L}/\text{dm}^3) \times \text{room area}(\text{m}^2) = \text{dehumidification load}(\text{L}/\text{d})$

※ Requires dehumidification volume of 0.8~1L/day per pyeong



SPECIFICATIONS

MODEL : CD-U065K1
 Rated capacity : 21,060 W
 Dehumidification capacity (Normal ~ max) : 318~840 L/d
 Recommended area : 250~760 m²
 Power consumption : 8.36 kW
 Dimensions : 1,120 (W) x 2,000 (H) x 530 (D)
 Circulating air volume : 3,600 CMH
 Power : 3-phase 4-wire 380V/60Hz/4W switchboard connection
 ※ Optional: Connective drain pump of 20~25A

SPECIFICATIONS

MODEL : CD-U090K1
 Rated capacity : 30,000 W
 Dehumidification capacity (Normal ~ max) : 409~1,060 L/d
 Recommended area : 400~1,420 m²
 Power consumption : 10.8 kW
 Dimensions : 1,470 (W) x 2,000 (H) x 530 (D)
 Circulating air volume : 4,620 CMH
 Power : 3-phase 4-wire 380V/60Hz/4W switchboard connection
 ※ Optional: Connective drain pump of 20~25A

Customer Satisfaction

Century's patented humidifiers offer maximum satisfaction.

Efficiency

We use the best compressor, which is the engine, that makes the least noise and is the most efficient. Other protective devices are also included.

Refreshing Environment

Century dehumidifiers offer the optimal refreshing environment.

Technology

Century dehumidifiers keep their high quality as they are built with various functions and technology such as automated ventilation and dehumidification.

Safety and Convenience

Century dehumidifiers are elegant in design and offer various convenient functions. Safety and convenience will offer you even more refreshing environment.

Wire and Circuit breaker capacity

Model	Circuit breaker capacity(A)	Wire size(mm ²)	Operating current(A)	Power
CD-U018K1	15	2.5	12.3	Single-phase 220V/60Hz
CD-U025K1	30	4	19.63	Single-phase 220V/60Hz
	10	4	6.97	3-phase 380V/60Hz/4W
CD-U045K1	20	4	9.51	3-phase 380V/60Hz/4W
CD-U065K1	30	6	14.94	3-phase 380V/60Hz/4W
CD-U090K1	50	10	19.31	3-phase 380V/60Hz/4W



SPECIFICATIONS

CD-U018K1
 6,000 W
 72~98 L/d
 70~230 m²
 2.25 kW
 370 (W) x 1,690 (H) x 400 (D)
 1,200 CMH
 Single-phase 220V/60Hz outlet plug type
 Drain hose connection (quick connection)



SPECIFICATIONS

CD-U025K1
 10,000 W
 120~336 L/d
 120~390 m²
 3.67 kW
 770 (W) x 2,000 (H) x 530 (D)
 1,440 CMH
 Single-phase 220V/60Hz switchboard connection
 ※ Optional: Connective drain pump of 20~25A

SPECIFICATIONS

CD-U045K1
 14,500 W
 191~504 L/d
 200~710 m²
 5.32 kW
 770 (W) x 2,000 (H) x 530 (D)
 2,160 CMH
 3-phase 4-wire 380V/60Hz/4W switchboard connection
 ※ Optional: Connective drain pump of 20~25A



For high temperatures	For average temperatures	For low temperatures	Constant temperature air cleaning dehumidifier	Hybrid space dehumidifier	Punkah type for high space
Use within 30°C~40°C	Use within 11°C~20°C	Use within 1°C~10°C			
CD-U025H1	CD-U025M1	CD-U025L1	CD-U025HT	CD-U025HY	CD-U025PN
CD-U045H1	CD-U045M1	CD-U045L1	CD-U045HT	CD-U045HY	CD-U045PN
CD-U065H1	CD-U065M1	CD-U065L1	CD-U065HT	CD-U065HY	CD-U065PN
CD-U090H1	CD-U090M1	CD-U090L1	CD-U090HT	CD-U090HY	CD-U090PN
CD-U135H1	CD-U135M1	CD-U135L1	CD-U135HT	CD-U135HY	CD-U135PN
CD-U175H1	CD-U175M1	CD-U175L1	CD-U175HT	CD-U175HY	CD-U175PN
			Patented No. 10-1214892	Patented No. 10-1191274	

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SPECIFICATION SHEET COOLING DEHUMIDIFIER(ASSEMBLED)

MODEL CATEGORY			CD-U010	CD-U020	CD-U035	CD-U018	CD-U025	CD-U045	CD-U065	CD-U090	CD-U135 (2CYCLE)	CD-U175 (2CYCLE)	
			P1	P1	BK1	K1	K1	K1	K1	K1	K1	K1	K1
Rated Capacity			W	3,800	6,000	3,800	6,000	10,000	14,500	21,060	30,000	46,510	58,140
Standard Area			㎡/(평)	125(38)	248(75)	125(38)	248(75)	412.5(125)	742.5(225)	990(300)	1485(450)	1980(600)	2970(900)
KS Area			㎡/(평)	80(24)	173(52.5)	80(24)	173(52.5)	289(87.5)	520(158.5)	693(210)	1040(316)	1386(420)	2079(630)
Maximum Area			㎡/(평)	175(53)	297(90)	175(53)	297(90)	495(150)	891(270)	1188(360)	1782(540)	2376(720)	3564(1080)
Standard Dehumidifying Capacity			ℓ / h (day)	1.5(36)	3(72)	1.5(36)	3(72)	5(120)	9(216)	12(288)	18(432)	24(576)	36(864)
KS Dehumidifying Capacity			ℓ / h (day)	1(24)	2.1(50.4)	1(24)	2.1(50.4)	3.5(84)	6.3(151.2)	8.4(201.6)	12.6(302.4)	16.8(403.2)	25.2(604.8)
Maximum Dehumidifying Capacity			ℓ / h (day)	1.8(43.2)	3.6(86.4)	1.8(43.2)	3.6(86.4)	6(144)	10.8(259.2)	14.4(345.6)	21.6(518.4)	28.8(691.2)	43.2(1036.8)
Unit dimension	Height		mm	1,112	1,142	350	1,690	2,000	2,000	2,000	2,000	2,320	2,320
	Width		mm	430	500	620	370	770	770	1,120	1,470	1,600	1,800
	Depth		mm	490	559	625	400	530	530	530	530	750	750
Weight			kg	67	83	50	75	120	125	200	260	450	500
Compressor	Output		㎥/h	3.99	6	3.99	6	10	14	25	35	25.3 x 2	35 x 2
	HP			1	1.8	1	1.8	3	5	8	10	8 x 2	10 x 2
Ventilator	Indoor unit	Motor output	kW	0.146	0.210	0.08	0.210	0.270	0.270	0.270 x 2	0.270 x 2	1.1 x 2	1.5 x 2
		Air volume	㎥/min	15	20	12	20	24	36	60	77	130	180
Power			ø,V,Hz	1 ø 220V 60Hz					3 ø 380V 60Hz				
Power consumption			kW	1.36	2.3	1.3	2.3	3.67	4.79	8.86	11.85	20.04	27.61
Operating current			A	7.27	12.3	6.95	12.3	19.63	10.41	19.54	24.88	35.82	49.35
Condition of use				Room temperature 20 ~ 30℃									
Control	DISPLAY and control panel		LED DISPLAY (Temperature/Humidity Table)			TOUCH PAD (Temperature/Humidity Talbe)							
	MAIN P.C.B		MICOM CONTROLLER										
	Function		Dehumidification, ventilation, automatic defrosting and reserved operation			Dehumidification, strong automatic dehumidification(Q), reserved operation, (MICOM PROGRAM)							
Humidity on display			%	0% ~ 99%									
Default humidity			%	0% ~ 99%			20% ~ 99%						
Refrigerant			—	R – 22									
Defalt refrigerant amount			kg	0.75	1.2	0.8	1.2	3	3.5	4.5	5.5	6 x 2	7 x 2
Drain			—	15A					20A				

- Standard area above was measured at 27℃ dry-bulb temperature and 70% relative humidity; dehumidification will differ according to change in humidity or temperature. Please inquire.
- KS area above was measured at 27℃ dry-bulb temperature and 60% relative humidity; dehumidification will differ according to change in humidity or temperature. Please inquire.
- Maximum area above was measured at 30℃ dry-bulb temperature and 80% relative humidity; dehumidification will differ according to change in humidity or temperature. Please inquire
- Dataaboveisforroomtemperature(20~30℃).Pleaseinquireaboutmid-temperature(10~20℃)andlowtemperature(2~10℃).

MOVABLE MEDIUM DEHUMIDIFIER



Customer Satisfaction

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Efficiency

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SPECIFICATIONS

MODEL : CD-U010P1

Rated capacity : 3,800 W

Dehumidification capacity (Normal ~ max)

Operating current : 9.5 (A)

Power consumption : 1.8 kW

Dimensions : 430 (W) x 1,141 (H) x 490 (D)

Circulating air volume : 900 CMH

Power : Single-phase 220V/60Hz outlet plug

※ Water tank included (Drain pump option)

SPECIFICATIONS

MODEL : CD-U020P1

Rated capacity : 6,000 W

Dehumidification capacity (Normal ~ max)

Operating current : 15 (A)

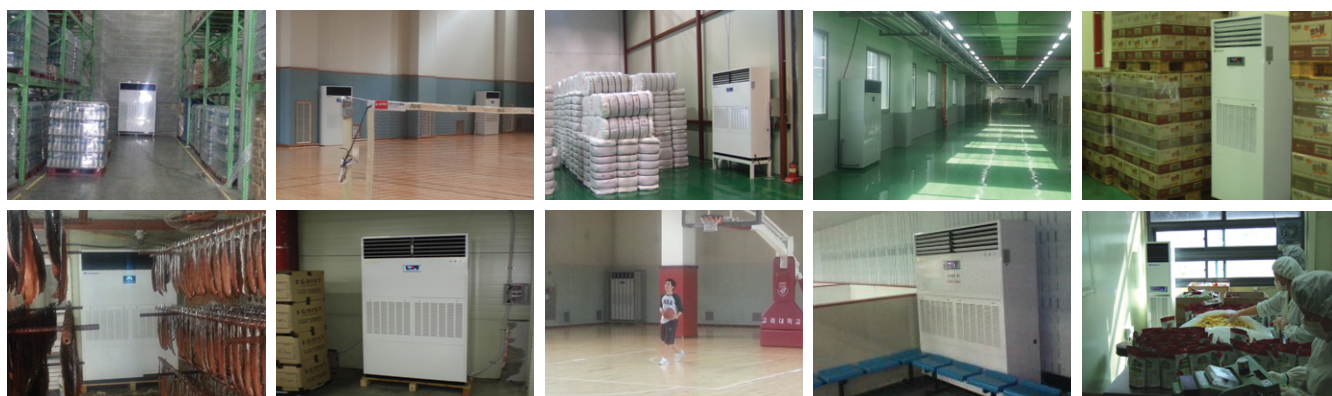
Power consumption : 2.5 kW

Dimensions : 500 (W) x 1,167 (H) x 559 (D)

Circulating air volume : 1,200 CMH

Power : Single-phase 220V/60Hz outlet plug

※ Water tank included (Drain pump option)



Large spatial dehumidifier SPECIFICATIONS

MODEL : CD-U135K1

Dehumidification capacity : 890~1,824 L/d (Normal ~ max)

Recommended area : 500~1,600 m²

Dimensions : 1,600 (W) x 2,400 (H) x 750 (D)

Air volume : 7,800 CMH

Power consumption : 16.9 kW

Power : 3Ø 380V 60Hz 4W

MODEL : CD-U175K1

Dehumidification capacity : 955~2,520 L/d (Normal ~ max)

Recommended area : 800~2800 m²

Dimensions : 2,000 (W) x 2,400 (H) x 750 (D)

Air volume : 10,800 CMH

Power consumption : 22.5 kW

Power : 3Ø 380V 60Hz 4W

MODEL : CD-U333K1

Dehumidification capacity : 1,392~3,648 L/d (Normal ~ max)

Recommended area : 1,000~3,200 m²

Dimensions : 2,000 (W) x 2,400 (H) x 1,000 (D)

Air volume : 15,000 CMH

Power consumption : 35 kW

Power : 3Ø 380V 60Hz 4W

MODEL : CD-U444K1

Dehumidification capacity : 1,920~5,040 L/d (Normal ~ max)

Recommended area : 1,600~5,600 m²

Dimensions : 2,500 (W) x 2,400 (H) x 1,000 (D)

Air volume : 21,000 CMH

Power consumption : 46 kW

Power : 3Ø 380V 60Hz 4W

Designing and production of constant temperature dehumidifier, detachable dehumidifier, high/low temperature dehumidifiers for special use take place after technical consultations.