SA KLIMA &
FUGTTEKNIK

CDNP

Condensation dehumidifiers for portable industrial environments

CDNP 33÷96

TFT
DRY AIR SOLUTIONS

GENERAL DESCRIPTION

CDNP series portable professional dehumidifiers are high performance appliances, equipped with a sturdy galvanized steel frame covered with epoxy resins and mounted on 2 large wheels that make it easy to move even in construction sites or in case of obstacles. They have a high efficiency polyurethane air filter, washable and easily replaceable, and a large condensate collection tank with the possibility of direct discharge. Instead of the collection tank, it is possible to install a condensate lifting pump that allows the pumping of the condensate up to a height of 3.5 metres from the positioning level of the machine.

TECHNICAL CHARACTERISTICS					
MODEL	**CDNP**	**33**	**44**	**62**	**96**
Performance					
Dehumidification capacity at 32°C 90% (4)	L/24h	33	44	62	96
Dehumidification capacity at 30°C 80% (4)	L/24h	26	36	52	80
Dehumidification capacity at 27°C 80% (4)	L/24h	18	26	36	56
Dehumidification capacity at 27°C 60% (4)	L/24h	13	18	27	44
Dehumidification capacity at 25°C 80% (4)	L/24h	17	25	34	52
Dehumidification capacity at 25°C 60% (4)	L/24h	12	17	23	36
Dehumidification capacity at 20°C 80% (4)	L/24h	13,5	19	27	45
Dehumidification capacity at 20°C 60% (4)	L/24h	10	14	19	30
Dehumidification capacity at 15°C 80% (4)	L/24h	11	16	22	37
Dehumidification capacity at 15°C 60% (4)	L/24h	8	11	14	24
Dehumidification capacity at 10°C 80% (4)	L/24h	8	11,5	17	26
Dehumidification capacity at 10°C 60% (4)	L/24h	5,5	8	10	18
Fans					
Air Flow	m^3/h	380	450	550	1000
Available static pressure	Pa	0÷10	0÷10	0÷10	0÷10
Refrigerant					
Type		R410a	R410a	R410a	R410a
Refrigerant charge	Kg				
Global Warming Potential (GWP)		2088	2088	2088	2088
Load equivalent CO_2	t				
Electrical characteristics					
Power Supply	Volt/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Total absorbed power at 20°C 60%	KW	0,41	0,57	0,72	1,05
Maximum absorbed power (1)	KW	0,59	0,81	0,92	1,48
Maximum absorbed current (1)	A	3,2	3,9	4,2	7,2
Starting current (1)	A	10	18	20	29
Noise					
Sound pressure level (3)	dB (A)	43	43	51	52
Sound power level (3)	dB (A)	62	62	70	71

(1) With ambient conditions 35°C 70% without electrical resistance
(2) Ambient temperature 27°C, water temperature 70°/60°C, compressor off
(3) Sound pressure level calculated in a free field, 3 metres from the unit, directionality factor Q=2, according to ISO9614
(4) Operating temperature limits 1°÷35°C, relative humidity 30%÷98%

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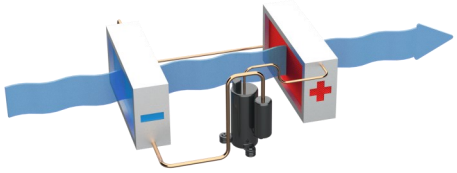
FRAME

The frame and panels are made of hot-dip galvanized steel, painted with epoxy powders, ensuring high resistance and durability.

REFRIGERANT CIRCUIT

Evaporator: The evaporation battery consists of smooth aluminium tubes. The smooth tubes ensure a high performance of the dehumidifier, significantly reducing energy consumption, even at low relative humidity.
Condenser: the battery consists of copper tubes and aluminium fins, the large size of the fins of the condenser ensures dust resistance, long life and easy maintenance of the machine.



COMPRESSOR

Rotary compressor, mounted on vibration dampers.

FAN

Axial fan, statically and dynamically balanced, durable and resistant.

AIR FILTER

The air filter, supplied as standard with the unit, is washable and easy to replace. High efficiency filter.

MICROPROCESSORS

Controls hot gas defrost cycles, compressor timer and alarm board.

ELECTRICAL PANEL

Located at the top of the machine. Execution according to the European standards in use.

CONDENSATE COLLECTION TANK

The standard condensate collection tank is very large and can be easily removed. The unit is also prepared for connection to a fixed condensate drain.

CONDENSATE LIFTING PUMP

Optional in all versions, it replaces the condensate collection tank and allows the removal of condensate water up to a height of 3.5 m with respect to the position of the machine. Equipped with an alarm to stop the dehumidifier in case of pump failure. Alternatively, a condensate lifting pump kit is available, easily applicable to the outside of the dehumidifier, equipped with a malfunction alarm that switches the machine off.

TEST

The tests are carried out to verify the tightness of the cooling circuit. Electrical discharge tests and functional tests are also carried out.

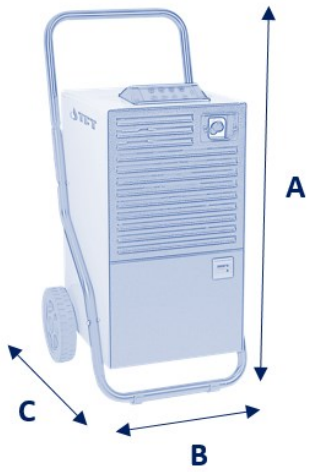
VERSION

CDNP… Standard version

Model CDNP	Code	33	44	62	96
Hot gas defrost	HGAS	●	●	●	●
Built-in mechanical humidistat	HYGR	●	●	●	●
Timer Hour Meter	THR	●	●	●	●
Remote electronic wall humidistat	PRCI	○	○	○	○
Condensate drain pump with kit for external installation	PRCE	○	○	-	○

● *standard,* ○ *optional, – not available.*

Dimensions



Model	CDNP	33	44	62	96
A	mm	750	800	800	1000
B	mm	480	480	560	560
C	mm	370	500	520	570
Empty weight	Kg	35	39	45	57

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