

Product selection guide KUE OEM humidifier kits



Integrated Control Solutions & Energy Savings



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Isothermal Humidification

The isothermal humidification process involves introducing steam into the environment that is generated by boiling water.

This procedure requires an external source of energy to change the state of the water.

As the mass of the steam is much lower than the mass of the air it is absorbed into, the temperature of the air increases slightly, and for this reason it is improperly called isothermal humidification.

Steam humidifiers ensure maximum hygienic safety, as the temperature of the steam ensures the absence of any potentially harmful microorganisms.



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KUE OEM kits

A KUE OEM kit is the core of an immersedelectrode steam humidifier simply made up of a support system (with hoses, valves, etc.), a steam cylinder, some auxiliary components and controlled by the dedicated CPY controller and/or an external controller. No contactor, transformer, fuses are included.

Advantages of the CAREL solution

CAREL offers its knowledge of humidification systems to manufacturers of CCUs which include humidity control in their products. The range of immersed-electrode KUE kits has been designed to be a universal, flexible and simple solution for such applications.

KUE kits are ideal for installation inside precision AHUs, thanks to their compactness and adaptability.

The full range features 4 models, rated from 1.5 to 45 kg/h (3.3 to 100 lbs/hr), each capable of modulating the steam flow from 20% of the rated flow to 100%, according to the external demand.

The cylinders are designed so as to enhance both energy efficiency and durability; cleanable cylinders are available as an option. For the control of the KUE kits, the CPY control boards are available. These modulate the steam flow according to one of the following ways:

- proportionally to an external 0 to 10 V or 4 to 20 mA signal;
- ON/OFF according to an external voltagefree contact (e.g. humidistat);
- according to the demand sent through the RS485 serial port.

electrode humidifiers. These can be controlled via the network. Read more on page 6.

• Comprehensive set of accessories: steam distributors and hoses, dual-check fill valve, drain connections and hoses, PCOUMI2* interface for controlling KUE kits from CAREL pCO controllers, amperometric transformer.

230 Vac 60 Hz drain pump)

What CAREL offers

- KUE kits are smaller than most competitors. A special compact unit is available when space is a real concern (max 3 kg/h / 6.6 lbs/hr, 208 or 230 Vac 1-phase).
- KUE kits are also available with metallic housings (up to 15 kg/h / 33 lbs/hr). See page 7.
- CAREL can supply the plastic support for the KUE kits with or without the cylinder.
- Both single- or multi-package boxes for KUE kits and cylinders can be ordered (more on pages 8-9).
- Standard cylinders are suitable for most types of supply water; cylinders for low and high conductivity water are also available. Cleanable cylinders can be ordered. See pages 10-11 for more information.
- CPY control boards come with the advanced CAREL software for immersed-

PCOUMI2*:

The PCOUMI2000 module is the pCO controller interface for the KUE kits: it converts the signals from the high-water-level sensor, the supply water conductivity meter and the TAM current sensor into a format compatible with the pCOB/pCO2/pCO1/ pCOC controllers. It must be used along with a controller from the pCO family. More information can be found on data sheet +050003210.

thit iiii

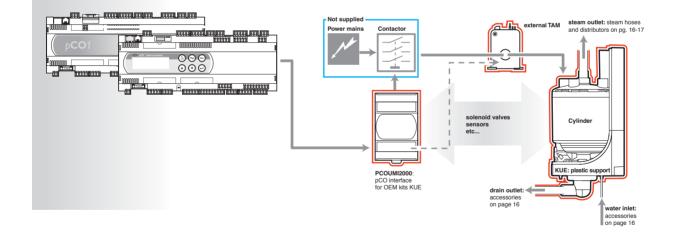
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TAM 09C565A042:

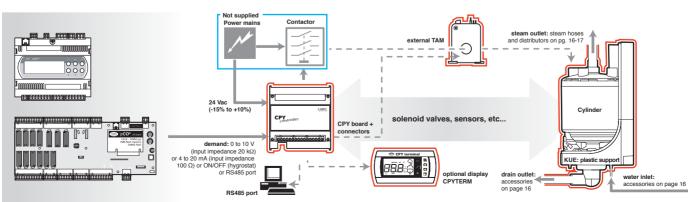
TAM is the current transformer used to measure the current that flows through the water in the cylinder. Based on the measured current, the steam flow is estimated.

565A042:

Overview of KUE kit with pCO



Overview of KUE kit with CPY board





KUE* kit:

KUE is an immersed-electrode steam humidifier made up of a plastic support (with hoses, valves, etc.), a steam cylinder and some auxiliary components, and is controlled by the dedicated CPY controller and/ or an external controller as shown in the images. For more information see page 6 and following.

CPY boards:

The boards are controllers designed for the KUE kits to best suit the customer's needs. The software has all the advanced features of CAREL algorithms for immersed-electrodes humidifiers. For more information, see page 6.







Control boards CPY

The CPY card is the latest controller for the OEM kits KUE. Only 1 model is suitable for all KUEs (read page 13 for the codes).

CPY has the following features:

- wide modulation range (20 to 100%) upon a 0 to 10 V, 2 to 10 V, 0 to 20 mA, 4 to 20 mA or ON/OFF demand the maximum production can be set by the optional terminal or via network;
- all user parameters can be modified by the optional terminal or via network (no dip switches);
- self-adaptive to the supply water quality;
- self-adaptive to the type of cylinder;
- smart dilution drains for effective energy saving behaviour;
- Anti-Foaming System (AFS) always onboard;
- quick on demand drop (drain when demand decreases more than 25%);
- full drain in case of lack of demand for a time longer than a user-definable time-out in order to avoid stagnant water in the cylinder;
- 24 Vac output to control the fill valve;
- parallel 24 Vac and relay outputs to control the drain valve/pump;
- 3 LEDs on board for basic diagnostic (24 Vac presence, steam flow rate, alarms);
- can be controlled through the RS485 serial port either by the proprietary CAREL protocol or as a Modbus[®] node (NO external gateway is required);
- CPY boards can be set-up for the available voltage and capacity by humiSet, the CAREL kit for configuring the controllers, by CPYTERM, their dedicted LCD terminal with keyboard, or via network;

- CPY board fits DIN rails;
- More information can be found on CPY's manual +040000030 and +040000031.

Other accessories CPY:

- external TAM for CPY: 09C565A042
- external terminal with display and keyboard: CPYTERM, wich can be connected to CPY by a standard phone cable S90CONN (plug&play);
- external 3-LEDs display: UMKDP00000;
- connectors kit: CPYCONN000;
- configuration software for CP's: HUMISET000 (230 Vac single-phase).





KUE kits with metallic housing KUE***C0**/0X**/0Z**/0J**

KUE kits with metallic housing have been designed for users who need a humidification kit that is easy to integrate into the final product:

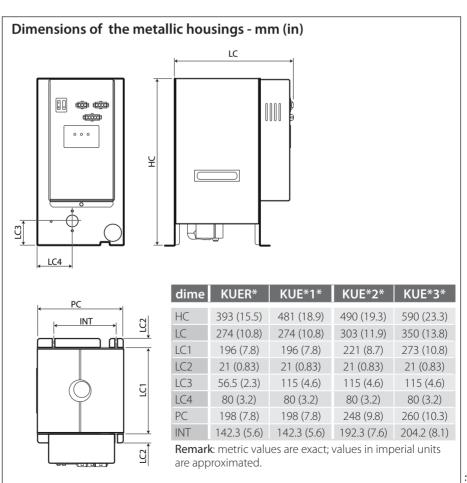
- the CPY controller is on-board and already partially wired and ready for the network;
- the on/off and drain switches are fitted;
- the customer has to supply:
- 24 Vac for the controller and the fill valve/pump (*C0* for 50-60Hz valve, *0X* for 50Hz pump, *0Z* for 60Hz pump), 230 Vac for the drain pump (*0J* for 50-60 Hz);
- power supply for the cylinder along with the power contactor.

General characteristics:

- only the KUE*R*CO**/0X**/0Z**/0J**
 (max. 3 kg/h / 6.6 lbs/hr) and KUE*1*CO**/
 0X**/0Z**/0J** (max. 3 kg/h / 6.6 lbs/hr),
 KUE*2*CO**/0X**/0Z**/0J* (max. 8 kg/h /
 17 lbs/hr) and KUE*3*CO**/0X**/0Z**/0J**
 (max. 15 kg/h / 33 lbs/hr) kits are available with
 metallic housing; the KUE*4* kit (max.
 45 kg/h/100 lbs/hr) is not available with
 metallic housing;
- the metallic housing is hot galvanized;
- CPY is fixed onto a DIN rail;
- all the advanced features of the CPY boards are resident;
- Network communication is possible as CPY is ready both for CAREL proprietary protocol and Modbus[®];
- CPY has 1 cumulative alarm relay rated at 250 Vac 5 A (2 A);
- 1x connector is reserved for the control of the external contactor (not supplied) and for the 24 Vac power supply to CPY;
- 1x connector is reserved for the external demand signal (0 to 10 V, 2 to 10 V, 0 to 20 mA,

4 to 20 mA or ON/OFF);

- 1x digital input is reserved for an external start enabling signal (a.k.a. remote ON/OFF);
- 1x optional terminal is available for displaying statuses, alarms and editing the internal parameters;
- the default drain connection is 90 deg O.D. 32 mm (1.26 in);
- additionally, the following drain connections are supplied as standard: straight O.D. 32 mm (1.26 in), 90 deg O.D. 23 mm (0.91 in);
- the optional drain connection straight O.D. 23 mm (0.91 m);
 the optional drain connection straight O.D. 23 mm (0.91 in) can be ordered separately;
- single package only.





Drain connections for KUE*R* to KUE*3*

The following drain connections are supplied as default or option depending on the type of KUE:

connections	code	KUE* no MH	KUE* + MH
90 deg	KUE with		
0.D. 32 mm	drain valve:	•	•
(1.26 in)	KITRACC000		
	(both together)		
straight O.D. 32 mm (1.26 in)	KUE with drain pump: KITRACC003 (both together)	•	•
90 deg O.D. 21 mm (0.83 in)	KUE with drain valve: 18C499A029 KUE with drain pump: KITRACC002 (O.D. 23 mm/0.91 in)	0	•
straight O.D. 21 mm (0.83 in)	KUE with drain valve: not available KUE with drain pump: KITRACC001 (O.D. 23 mm/0.91 in)	0	0

Legenda:

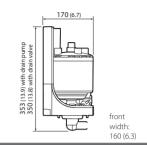
MH = metallic housing $\bullet =$ included O = optional

KUE: plastic support

Each KUE is made up of:

- cylinder: at user's choice, it can be ordered separately;
- plastic support with cylinder fastening strap;
- fill and drain valve/pump;
- conductivity meter;
- hoses.
- For more information, see the KUE manuals +030221791, +030220590.

Remark: metric values are exact; values in imperial units are approximated.



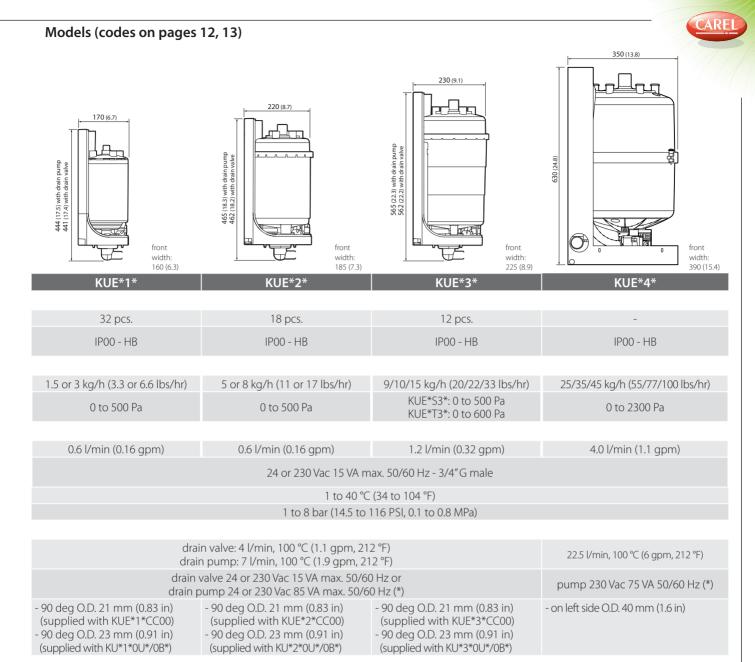
	160 (6.3)
Caratteristiche	KUE*R* (compact)
General	
Multiple package (without metallic housing only)	36 pcs.
Protection index (CEI EN 60529) - Flame- retardant rating (UL 94)	IPOO - HB
Steam flow	
rated steam flow (modulation: 20 to 100%)	1.5 or 3 kg/h (3.3 or 6.6 lbs/hr)
pressure	0 to 500 Pa
Supply water	
inlet flow	0.6 l/min (0.16 gpm)
solenoid valve (connection on the bottom)	24 or 230 Vac 15 VA max. 50/60 Hz - 3/4" G male
temperature	1 to 40 °C (34 to 104 °F)
pressure	1 to 8 bar (14.5 to 116 PSI, 0.1 to 0.8 MPa)
Water drain	
flow and temperature	drain valve: 4 l/min, 100 °C (1.1 gpm, 212 °F) drain pump: 7 l/min, 100 °C (1.9 gpm, 212 °F)
device	drain valve 24 or 230 Vac 15 VA max. 50/60 Hz or drain pump 24 or 230 Vac 18 VA max. 50/60 Hz (*)
connection (bottom; except for KUET4*)	- 90 deg O.D. 21 mm (0.83 in) (supplied with KUESR*CC00) - 90 deg O.D. 23 mm (0.91 in) (supplied with KUESR*0U*/0B*)

(*): 24 Vac drain pump : CPY can supply the pump directly; pCO drives the pump through an on-board relay. 230 Vac drain pump: pCO and CPY can drive the pump directly by the on board relay.

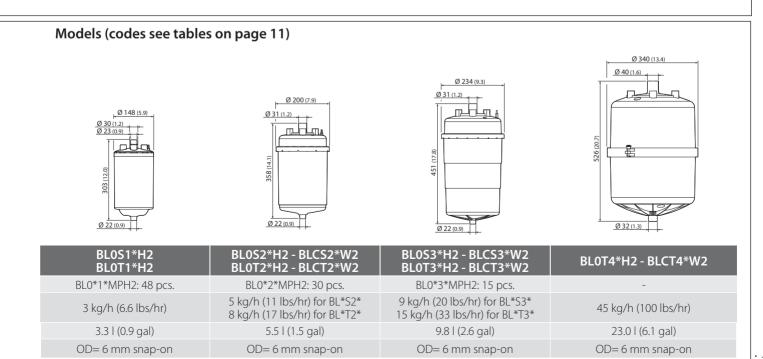
KUE: cylinders

Common characteristics:

 galvanized steel electrodes; high-level and foam sensor; internal bottom filter to stop lime scale from clogging the drain valve; protection caps for electrode power studs included. 	Ø 148 (5.9) Ø 20 (1.2) Ø 23 (0.9) Ø 22 (0.9)
Caratteristiche	BL0SR*H2
Multiple package	-
Maximum steam flow	3 kg/h (6.6 lbs/hr)
Maximum volume of water	1.7 l (0.5 gal)
Power connections	OD= 6 mm snap-on

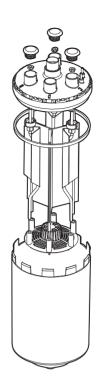


rd relay.



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The range of humiSteam cylinders

All the CAREL immersed electrode humidifiers feature sophisticated control software that automatically adapts the operating parameters to the characteristics of the water; nonetheless, the optimum balance between cylinder life, variation of steam production and speed of response depending on the type of water and the power supply can only be achieved by changing the shape and the position of the electrodes. For this reason, the CAREL immersed electrode humidifiers today feature the widest choice of cylinders, with specific electrodes for water with conductivity between 75 µS/cm and 1250 µS/cm, for capacities between 1.5 and 45 kg/h (3.3 and 100 lbs/hr), and for power supply voltages between 208 V and 575 V.

This extraordinary range of cylinders is the result of years of research and tens of thousands of hours of tests in the CAREL Humidification Laboratory under the widest possible range of uses. This ensures the right solution in every circumstance.

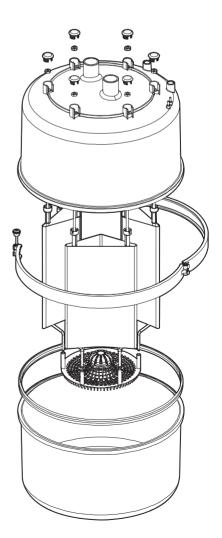
All the humiSteam cylinders feature large galvanized electrodes, positioned inside the cylinder so as to optimise duration and constant performance over the working life of the cylinder.

In addition, significant attention has been paid to operation on water with more critical characteristics, to reduce the phenomenon of arcing.

All cylinders are also fitted with filters to avoid the formation of lime scale in the base, preventing the blockage of the drain.

Openable cylinders

The new humidifiers can be fitted with "disposable" cylinders made from flameretardant plastic, class HB according to UL94, or alternatively openable and therefore cleanable cylinders, made from class V0 flame-retardant plastic (UL94 standard). The openable cylinders feature quick click-on closing, with a rubber gasket to ensure perfect water-tight seal between the two parts of the cylinder.



Disposable cylinders (HB according to UL 94)

KUE three-phase 400 V (from 380 to 415 V)												
		Water conductivity										
	Low	High										
kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm									
3 (6.6)	BL0T1A00H1/2	BL0T1C00H1/2	BL0T1D00H1/2									
5, 8 (11, 17)	BL0T2B00H0/2	BL0T2C00H0/2	BL0T2D00H0/2									
10, 15, 18 (22, 33, 40)	BLOT3B00H0/2	BL0T3C00H0/2	BL0T3D00H0/2									
25, 35 (55, 77)	BL0T4C00H0/2	BL0T4	D00H0/2									
45 (100)	BL0T4B00H0/2	BL0T40	C00H0/2									

KUE single-phase 230 V (from 220 to 240 V)													
		Water conductivity											
	Low	Low Medium High											
kg/h (lbs/hr)	75/350 µS/cm	350/750 μS/cm	750/1250 μS/cm										
1, 3 (3.3, 6.6) compact	BLOSRE00H1/2	BLOSRI	F00H1/2										
1, 3 (3.3, 6.6)	BLOS1E00H1/2	BL0S1F	F00H1/2										
5 (11)	BL0S2E00H0/2	BL0S2E00H2	or BL0S2F00H0										
9 (20)	BL0S3E00H0/2	BLOS3	F00H0/2										

	KUE three-pha	ase 208 and 23	0 V	KUE single-phase 208 V					
		Water conductivi	ty			Water conductivi	ty		
	Low	Medium	High		Low	Medium	High		
kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm	kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm		
3 (6.6)	BLOT1A00H1/2	BL0T1I	300H1/2	1, 3 (3.3, 6.6)	BLOSRE00H1/2	BL0SRF00H1/2			
5, 8 (11, 17)	BL0T2A00H1/2	BL0T2A00H2	or BL0T2B00H0	compact					
10, 15				1, 3 (3.3, 6.6)	BL0S1E00H1/2	BL0S1	F00H1/2		
(22, 33)	BL0T3A00H1/2	BL0T3A00H2	or BL0T3B00H0	5 (11)	BL0S2E00H0/2	BL0S2E00H2	or BL0S2F00H0		
25 (55)	BL0T4B00H0/2	BL0T40	C00H0/2	9 (20)	BL0S3E00H0/2	BL0S3	F00H0/2		
35 (77)		BL0T4B00H0/2							

	KUE three	-phase 460 V		KUE three-phase 575 V						
		Water conductivit	ty		Water conductivity					
	Low	Medium High			Low	Medium	High			
kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm	kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm			
3 (6.6)	BLOT1B00H1/2	BL0T1	D00H1/2	5, 8 (11, 17)	BL0T2C00H0/2	BL0T2I	D00H0/2			
5, 8 (11, 17)	BL0T2C00H0/2	BL0T2D00H0/2		10, 15, 18	BL0T3C00H0/2	BL 0T3	D00H0/2			
10, 15, 18	BI 0T3C00H0/2		D00H0/2	(22, 33, 40)	52015200110,2	52010				
(22, 33, 40)	DLUTSCUURU/2	DLUISI	20000/2	25, 35 (55, 77)		BL0T4D00H0/2				
25 (55)		BL0T4D00H0/2	2	45 (100)		BL0T4D00H0/2				
35 (77)	BL0T4C00H0/2	BL0T4D00H0/2								
45 (100)	BL0T4C00H0/2	BL0T4	D00H0/2							

Openable cylinders (V0 according to UL 94) (*)

KUE three-phase 400 V (from 380 to 415 V)													
		Water conductivity											
	Low Medium High												
kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm										
5, 8 (11, 17)	BLCT2B00W0/2	BLCT2C00W0/2	BLCT2D00W0/2										
10, 15, 18 (22, 33, 40)	BLCT3B00W0/2	BLCT3C00W0/2	BLCT3D00W0/2										
25, 35 (55, 77)	BLCT4C00W0/2	BLCT4D	000W0/2										
45 (100)	BLCT4B00W0/2	BLCT4C	C00W0/2										

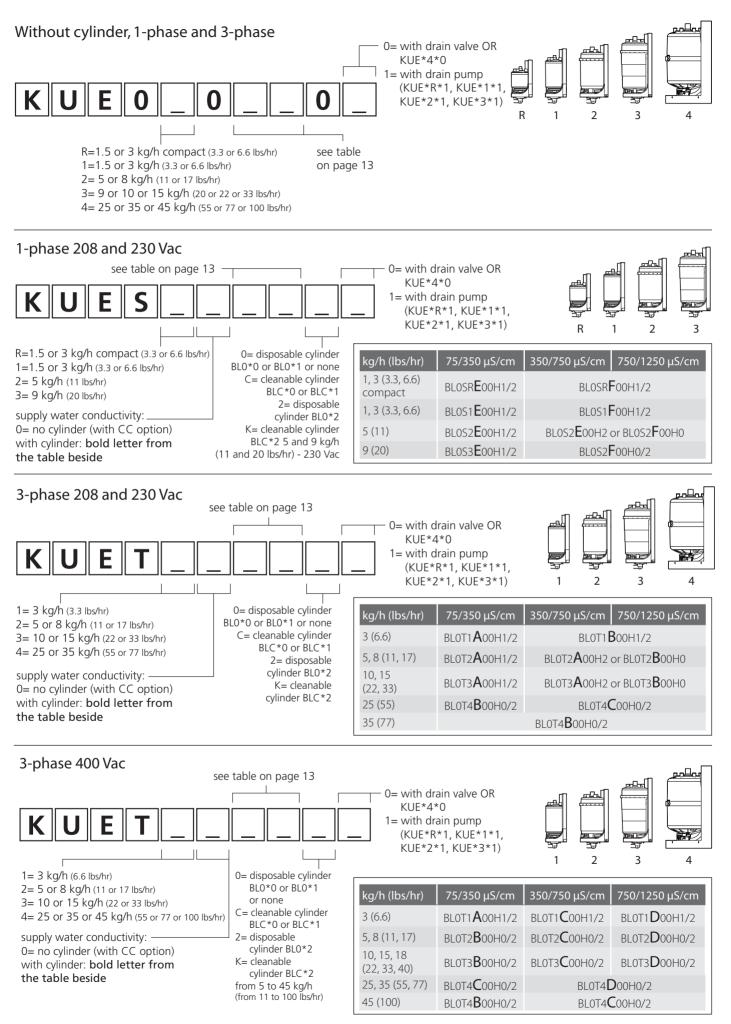
KUE single-phase 230 V (from 220 to 240 V)													
		Water conductivity											
	Low Medium Hig												
kg/h (lbs/hr)	75/350 μS/cm	350/750 μS/cm	750/1250 μS/cm										
5 (11)	BLCS2E00W0/2	BLCS2E00W2	or BLCS2F00W0										
9 (20)	BLCS3E00W0/2	BLCS3F	F00W0/2										

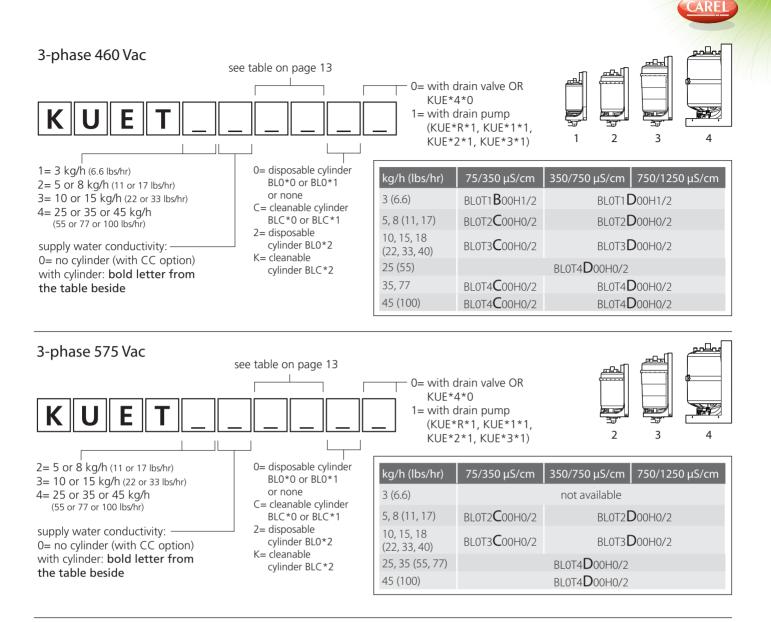
REMARK: cylinders BL*0 and BL*1 have power connections with nuts; BL*2 have snap-on connectors. Note: **the codes in bold are factory-fitted as standard.** Important

(*) As well as the voltages shown here, openable cylinders are available for: 208 Vac 1-phase, 230 Vac 3-phase, 460 Vac 3-phase and 575 Vac 3-phase. Contact CAREL for the codes.



KUE kit product codes





KUE codes: digits 7 & 8

fill valve	drain	package	metallic casing	KUE*R*	KUE*1*	KUE*2*	KUE*3*	KUE*4*
		single	without	00	00	00	00	N.A.
	valve 24 Vac	Single	with	C0	C0	CO	C0	N.A.
		multiple	without	MP	MP	MP	MP	N.A.
			without	0W (50 Hz)	0W (50 Hz)	0W (50 Hz)	0W (50 Hz)	N.A.
24 Vac		single	without	0A (60 Hz)	0A (60 Hz)	0A (60 Hz)	0A (60 Hz)	IN./~.
21,440	pump 24 Vac	single	with	0X (50 Hz)	0X (50 Hz)	0X (50 Hz)	0X (50 Hz)	N.A.
	pump 24 vac		VVILII	0Z (60 Hz)	0Z (60 Hz)	0Z (60 Hz)	0Z (60 Hz)	N.A.
		multiple	without	MW (50 Hz)	MW (50 Hz)	MW (50 Hz)	MW (50 Hz)	N.A.
		multiple	without	MA (60 Hz)	MA (60 Hz)	MA (60 Hz)	MA (60 Hz)	IN.⁄^.
	pump 230 Vac	single	without	0V (50/60 Hz)	0V (50/60 Hz)	0V (50/60 Hz)	0V (50/60 Hz)	00 (50/60 Hz)
			· ·					
	valve 230 Vac	single	without	20	20	20	20	N.A.
	valve 200 vac	multiple	without	2M	2M	2M	2M	N.A.
230 Vac		single	without	0Y (50/60 Hz)	0Y (50/60 Hz)	0Y (50/60 Hz)	0Y (50/60 Hz)	20 (50/60 Hz)
	pump 230 Vac	Single	with	0J (50/60 Hz)	0J (50/60 Hz)	0J (50/60 Hz)	0J (50/60 Hz)	N.A.
		multiple	without	MY (50/60 Hz)	MY (50/60 Hz)	MY (50/60 Hz)	MY (50/60 Hz)	N.A.

N.A. = Not Available

CPY board product codes



blank to be configured by humiSet, the CAREL kit for configuring the controllers, by CPYTERM or via network.

Remark:

" * " is the firmware release.

"z" = 0: with CAREL protocol active @ 19,200 Baud and frame 8, N, 2

"z" = A: with Modbus® RTU active @ 9,600 Baud and frame 8, N, 2

"z" = B: with Modbus® RTU active @ 19,200 Baud and frame 8, N, 2



These accessories are available for the KUE. humiSteam, compactSteam, heaterSteam and gaSteam humidifiers.

The CAREL range of accessories for isothermal humidifiers has been especially developed to allow the designer to create humidification systems that are complete and suitable for all types of application.

The fundamental idea is to guarantee the optimum operation of the humidification system by providing the installer, maintenance personnel and user all the auxiliary components that simplify installation, the distribution of steam, operation and control of the humidifier.

The accessories, described in the following paragraphs, are divided into:

- steam distribution accessories: steam hoses and distributors for ducts;
- plumbing components, for filling and draining the water.

The table on the next page describes the recommended models for each type of humidifier; the quantities in brackets (double) are to be used in the event of small ducts, however require the branching of the steam hoses.

Fittings and connectors (UEKY******)

with a 40 mm inlet and two 30 mm outlets

40 mm outlets (UEKY40X400).

radius), which might damage it.

Two stainless steel Y fittings are available, one

AISI 316 steam connectors (KITVAP0900,

A 90 ° and 135 ° AISI316 fitting are available to avoid

sharp bends to the steam hose (less than 300 mm

(UEKY000000) and one with a 40 mm inlet and two



√UR **V**UE **√**CH √UG

Steam nozzles (SDPOEM00**)

A range of steam nozzles is also available for distributing the steam in small ducts or steam baths (SDPOEM0012 for models from 1 to 3 kg/h, SDPOEM0022 for models from 5 to 18 kg/h, SDPOEM0000)



Steam hoses

1312360AXX - 1311365AXX - 1312367AXX hose for cylinders with 22/30/40 mm fitting and harmonic steel coil (outside diameter 32/41/52 mm)

The new steam distribution hoses are made from rubber resistant to 105 °C in continuous operation without the emission of odours, and suitable for use with foodstuffs. The harmonic steel coil immersed in the rubber gives the hose flexibility and strength preventing it from being choked and blocking the flow of steam.



Steam distributors for ducts (DP***D**R*)

The wide range of linear steam distributors for ducts in the $\tilde{"\!D\!P}"$ series is made up of perforated stainless steel pipes supported by a fastening bracket in Ryton®.

This material combines excellent mechanical characteristics with extraordinary resistance to high temperatures (max. 150 °C/302 °F). The new fastening bracket allows the steam distributor to be fastened vertically to a wall, guaranteeing the correct incline of the distributor for the drainage of the condensate.

The stainless steel linear steam distributors are available in 3 different diameters (35, 45 and 60 mm), which couple respectively to the 22, 30 and 40 mm diameter steam hoses used on the entire range of CAREL humidifiers.

The linear distributors are designed to release the steam in a uniform manner along the entire length of the distributor, so as to minimise the absorption distance.



FWHDCV0000: water fill kit

FWH3415000: hose L=1.5m

FWH3430000: hose L= 3m

eliminates this risk.

can be used.

9997*ACA: straight and 90° guick connection

1312350APN: hose with 6 mm ID and 8 mm OD.

The FWHDCV0000 kit includes the FWH3415000

hose and a double non-return valve. The kit has

standards that require the use of a double non-

return valve upstream of the humidifier (WRAC),

direct connection to the metal mains water pipes. The plastic fill solenoid valve may be damaged if

connected directly to the metal mains water pipes:

The FWH3***000 hoses are available in two lengths:

1.5 m and 3 m, with two ¾" female GAS fittings (one straight and one elbow). Alternatively, the 6 mm

hose and the quick connectors described below

The straight or elbow connection (999572*ACA)

is screwed onto the fill solenoid valve and can be quickly fitted by tightening a nut to the 6 mm

water fill hose (1312350APN).

using the hoses with plastic fittings, FWH3***000,

and to avoid breakages of the fill valve due to

been designed both to ensure conformity to

Fill hoses

KITVAP1350

UE UR **√**CH √UG **V**UE **V**IUR √UG **√**CH

Condensate drain hoses

1312353APG: 7 mm, 1312368AXX: 10 mm, 1312357APG: 40 mm (1 m long)

The condensate that forms inside the steam distributors must be drained using the 7 mm hose for the steam blowers, and the 10 mm hose for the "DP" linear distributors for ducts. The water drain hose is the same for all isothermal humidifiers and is made from rubber resistant to 100 °C.

Remark: metric values are exact; values in imperial units are approximated.

	Distributors																				
code description	DP030D22RU	DP035D22R0	DP045D22R0	DP060D22R0	DP085D22R0	DP030D30RU	DP035D30R0	DP045D30R0	DP045D30RU	DP060D30R0	DP060D30RU	DP085D30R0	DP105D30R0	DP125D30R0	DP165D30R0	DP060D40RU	DP085D40R0	DP105D40R0	DP125D40R0	DP165D40R0	DP205D40R0
Ø inlet (C)		22 r	nm (0	.9 in)					3	30 mn	า (1.2	in)						40 mn	n (1.6 i	n)	
size (B)		35 r	nm (1	.4 in)					Z	15 mn	n (1.8	in)						60 mn	n (2.4 i	n)	
lenght (A)	300	350	450	600	850	300	350	450	450	600	600	850	1050	1250	1650	600	850	1050	1250	1650	2050
KUESR*	1	1	1	1	1																
KUE*1*	1	1	1	1	1																
KUE*2* 5 kg/h						1	1	1	1	1	1										
KUE*2* 8 kg/h						1		1	1	1	1	1									
KUE*3* 9 or 10 kg/h						1			1	1	1	1	1								
KUET3* 15 kg/h											1	1	1	1	1						
KUET4* 25 kg/h											(2)	(2)	(2)	(2)	(2)	1	1	1			
KUET4* 35 kg/h													(2)	(2)	(2)	1	(2)	1	1		
KUET4* 45 kg/h																1	(2)	(2)	1	1	1
(2) use the prope	r UEK	Y* fitti	ng																		

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