



(only KUE\*R\*, KUE\*1\*, KUE\*2\*, KUE\*3\* with 24 Vac fill valve and 24 Vac drain valve or 24 Vac 60 Hz drain pump or 230 Vac 60 Hz drain pump)

## OEM series

### KUE OEM kits

A KUE OEM kit is the core of an immersed-electrode 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.

#### What CAREL offers

- 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;
- 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 18 kg/h / 40 lbs/hr);
- 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;
- 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. All have been designed so as to enhance both energy efficiency and durability;
- CPY control boards come with the advanced CAREL software for immersed-electrode humidifiers. CPs can be controlled by a 0 to 10 V or 4 to 20 mA or ON/OFF (i.e., potential-free contact) demand as well as via network without any additional card. KUEs can also be controlled from a pCO controller;
- 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.

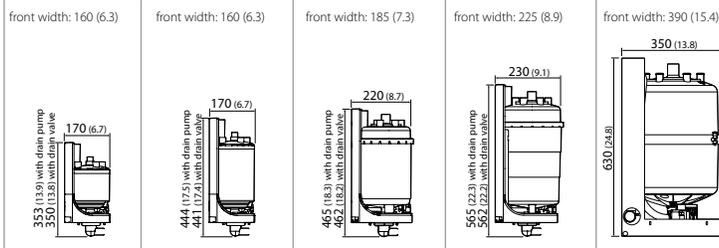
# KUEs in brief

Each KUE is made up of:

- cylinder: at user's choice, it can be ordered separately (contact CAREL for the codes);
- plastic support with cylinder fastening strap;
- fill and drain valve/pump;
- conductivity meter;
- hoses;
- CPY control card for a 0 to 10 V or 4 to 20 mA or a potential-free ON/OFF external demand.  
CPY can be substituted by a pCO controller with interface card PCOUMI2\*.

**REMARK:** metric values are exact; values in imperial units are approximated.

Dimensions - mm (in)



Models	KUE*R* (compact)	KUE*1*	KUE*2*	KUE*3*	KUE*4*
Code (*)					
- without cylinder, without metallic housing; single package	KUE0R00000	KUE0100000	KUE0200000	KUE0300000	KUE0400000
- with 24 Vac fill valve, without cylinder, with metallic housing; single package	KUESR0CC00 (24 Vac drain valve) KUESR00U00/0B00 (230 Vac 50/60 Hz drain pump)	KUE(S/T)10CC00 (24 Vac drain valve) KUE(S/T)100U00/0B00 (230 Vac 50/60 Hz drain pump)	KUE(S/T)20CC00 (24 Vac drain valve) KUE(S/T)200U00/0B00 (230 Vac 50/60 Hz drain pump)	KUE(S/T)30CC00 (24 Vac drain valve) KUE(S/T)300U00/0B00 (230 Vac 50/60 Hz drain pump)	-
- with cylinder, with and without metallic housing; single package	KUESR*00	KUE(S/T)1*00	KUE(S/T)2*00	KUE(S/T)3*00	KUET4*0000
- multiple package (without metallic housing)	KUE*R*MP*: 36 pcs	KUE*1*MP*: 32 pcs	KUE*2*MP*: 18 pcs	KUE*3*MP*: 12 pcs	-

Rated steam flow (modulation: 20 to 100%)	1.5 or 3 kg/h (3.3 or 6.6 lbs/hr) -600 to 500 Pa	1.5 or 3 kg/h (3.3 or 6.6 lbs/hr) -600 to 500 Pa	5 or 8 kg/h (11 or 17 lbs/hr) -600 to 500 Pa	9/10/15/18 kg/h (20/22/33/40 lbs/hr) KUES3*: 0 to 500 Pa KUET3*: 0 to 600 Pa	25/35/45 kg/h (55/77/100 lbs/hr) 0 to 2300 Pa
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Supply water:					
- inlet flow	0.6 l/min (0.16 gpm)	0.6 l/min (0.16 gpm)	0.6 l/min (0.16 gpm)	1.2 l/min (0.32 gpm)	4.0 l/min (1.1 gpm)
- solenoid valve (connection on the bottom)	24 or 230 Vac 15 VA 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)				22.5 l/min, 100 °C (6 gpm, 212 °F)
- device	solenoid valve 24 Vac 15 VA 50/60 Hz or pump at 24 or 230 Vac 18 VA 50/60 Hz				pump 230 Vac 85 VA 50/60 Hz
- connection (bottom; except for KUET4*)	- 90 deg O.D. 32 mm (1.26 in) - straight O.D. 32 mm (1.26 in) - 90 deg O.D. 23 mm (0.91 in) - optional for some models - straight O.D. 23 mm (0.91 in) - not available for some models				- on left side O.D. 40 mm (1.6 in)

Protection index (CEI EN 60529)	IP00
Flame-retardant rating (UL 94)	HB

(\*) contact CAREL for the complete list of codes or refer to the KUE product guide code +80000092\*.

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