



TYP EL

FOR THE ELECTRIC REHEATING OF AIRFLOWS IN CIRCULAR DUCTING

Circular electric air heater for the heating of airflows, suitable for VAV terminal units Type TVR and mechanical self-powered CAV controllers Type RN or VFC

- Outlet airflow temperature max. 50 °C
- Smooth surface stainless steel heating element 1.4301
- Integral overheating protection with temperature monitor (auto reset) and thermal cut-out (manual reset)
- Installation in horizontal or vertical ducts independent of airflow direction
- Suitable for circular ducts to EN 1506 or EN 13180
- With lip seal
- Protection level IP 43
- Casing air leakage to EN 15727, class C

Application

Application

- Electric air heater Type EL for reheating the airflow in circular ducting
- For VAV terminal units Type TVR and for CAV controllers Type RN or VFC

Description

Parts and characteristics

- Ready-to-install air heater
- Encased smooth surface stainless steel heating elements
- Overheating protection with temperature monitor (auto reset) and thermal cut-out (manual reset)
- Connection terminals

Construction features

- Circular casing with rectangular switch cabinet
- Spigot with lip seal, for circular connecting ducts to EN 1506 or EN 13180

Materials and surfaces

- Casing and switch cabinet made of galvanised sheet steel
- Heating element made of stainless steel 1.4301

INFORMACJE TECHNICZNE

Nominal sizes	100 – 400 mm
Volume flow rate range	12 – 750 l/s
Volume flow rate range	43 – 2700 m ³ /h
Thermal capacity	0.4 – 9 kW
Minimum airflow velocity	1.5 m/s
Maximum outlet airflow temperature	50 °C
Maximum operating temperature	40 °C
Static differential pressure	5 – 75 Pa
Supply voltage for nominal sizes 100 – 200	230 V AC, 1-phase
Supply voltage for nominal size 250	400 V AC, 1-phase
Supply voltage for nominal sizes 315, 400	400 V AC, 3-phase
Protection level	IP 43
EC conformity	EMC to 2004/108/EG, low voltage to 2006/95/EG

EL for TVR, RN and VFC

Nominal size	\dot{V}		Δp_{st} Pa	$t_a = 16\text{ °C}$	
	l/s	m ³ /h		\dot{Q} kW	t_e °C
100	12	43	5	0.40	41.8
	20	72	10	0.40	31.4
	30	108	15	0.40	26.3
	40	144	25	0.40	23.7
	45	162	30	0.40	22.9
125	20	72	5	0.88	50.0
	35	126	20	0.90	35.8
	50	180	40	0.90	29.9
	65	234	60	0.90	26.7
	75	270	80	0.90	25.3
160	30	108	5	1.20	46.9
	50	180	10	1.20	34.5
	70	252	15	1.20	29.2
	95	342	25	1.20	25.7
	115	414	35	1.20	24.1
200	50	180	5	2.10	48.4
	80	288	20	2.10	36.3
	115	414	35	2.10	30.1
	150	540	55	2.10	26.8
	180	648	80	2.10	25.0
250	75	275	5	3.00	46.9
	125	450	15	3.00	34.5
	180	648	25	3.00	28.9
	235	846	40	3.00	25.9
	290	1044	60	3.00	24.0
315	115	414	5	5.07	50.0
	200	720	15	6.00	39.1
	285	1026	25	6.00	32.2
	375	1350	40	6.00	28.3
	460	1656	60	6.00	26.1
400	190	684	5	8.37	50.0
	325	1170	15	9.00	37.4
	465	1674	30	9.00	30.9
	605	2178	50	9.00	27.5
	750	2700	75	9.00	25.3

\dot{Q} : Thermal capacity
 t_i : Inlet airflow temperature
 t_e : Outlet airflow temperature

Circular electric air heater for reheating the airflow in air conditioning systems

Dimensions fit VAV terminal units TVR as well as CAV controllers RN and VFC.

Integral overheating protection with temperature monitor (auto reset) and thermal cut-out (manual reset).

Spigot with lip seal, for circular connecting ducts to EN 1506 or EN 13180.

Casing air leakage to EN 15727, class C.

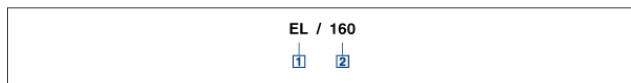
Materials and surfaces

- Casing and switch cabinet made of galvanised sheet steel
- Heating element made of stainless steel 1.4301

Technical data

- Volume flow rate range: 12 to 750 l/s or 43 to 2700 m³/h
- Thermal capacity: 0.4 - 9 kW
- Maximum outlet airflow temperature: 50 °C
- Static differential pressure: 5 - 75 Pa
- Supply voltage: 1 x 230 V AC to 3 x 400 V AC
- Protection level: IP 43

EL



1 Type

EL Electric air heater for VAV terminal units
Type TVR and for CAV controllers Type RN
or VFC

2 Nominal size [mm]

100
125
160
200
250
315
400