

TYP WL

FOR THE REHEATING OF AIRFLOWS IN CIRCULAR DUCTING

Circular hot water heat exchanger for the reheating of airflows, suitable for VAV terminal units Type TVR and mechanical self-powered CAV controllers Type RN or VFC

- For hot water up to 100 °C
- Copper tubes arranged in two rows, with aluminium fins
- Installation in horizontal or vertical ducts independent of airflow direction
- Suitable for circular ducts to EN 1506 or EN 13180
- With lip seal and inspection access
- Maximum water-side operating pressure is 8 bar
- Casing air leakage to EN 15727, class D

Application



Application

- Hot water heat exchanger Type WT for reheating the airflow in circular ducting
- For VAV terminal units Type TVR and for CAV controllers Type RN or VFC
- For hot water up to 100 °C

Description



Parts and characteristics

- Ready-to-install heat exchanger
- Copper tubes arranged in two rows
- Lip seal
- Inspection access
- Tested for leakage

Construction features

- Rectangular casing
- Spigot with lip seal, for circular connecting ducts to EN 1506 or EN 13180
- Maximum water-side operating pressure is 10 bar
- Horizontal water connection
- Water connection with compression ring fittings

Materials and surfaces

- Casing made of galvanised sheet steel
- Copper tubes
- Aluminium fins

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Nominal sizes	100 – 400 mm
Volume flow rate range	10 – 750 l/s
Volume flow rate range	36 – 2700 m ³ /h
Thermal capacity	0.25 – 18 kW
Maximum hot water temperature	100 °C
Maximum water-side operating pressure	10 bars
Water-side differential pressure	0.3 – 12 kPa
Static differential pressure	5 – 80 Pa

WL for TVR, RN and VFC

Nominal size	V̇		Δp _{st}	PWW 50/40, t _i = 16 °C				PWW 70/55, t _i = 16 °C			
				Q̇	t _e	m _w	Δp _w	Q̇	t _e	m _w	Δp _w
	l/s	m ³ /h	Pa	kW	°C	kg/h	kPa	kW	°C	kg/h	kPa
100	10	36	5	0.25	36.1	21	0.3	0.40	48.5	23	0.5
	20	72	10	0.38	31.3	33	0.4	0.62	41.2	36	0.6
	30	108	15	0.47	28.8	41	0.5	0.79	37.5	46	0.7
	40	144	25	0.55	27.2	48	0.6	0.95	35.2	55	0.8
	45	162	30	0.58	26.5	51	0.7	1.02	34.4	59	1.0
125	18	65	5	0.36	32.0	31	0.3	0.58	42.2	34	0.5
	35	126	20	0.51	27.9	44	0.5	0.87	36.2	51	0.8
	50	180	40	0.62	26.0	53	1.0	1.09	33.8	64	1.0
	65	234	60	0.70	24.8	61	1.2	1.30	32.3	76	1.3
	75	270	80	0.76	24.2	66	1.5	1.44	31.6	84	1.5
160	28	101	5	0.69	36.1	60	1.0	1.17	49.9	68	1.0
	50	180	10	1.05	33.1	91	2.0	1.83	45.8	107	3.0
	70	252	15	1.35	31.7	117	4.0	2.32	43.0	135	4.0
	95	342	25	1.70	30.6	147	5.0	2.85	40.4	166	6.0
	115	414	35	1.94	29.7	168	7.0	3.23	38.8	188	7.0
200	45	162	5	0.97	33.6	84	2.0	1.69	46.5	98	2.0
	80	288	20	1.49	31.2	129	4.0	2.54	41.8	148	5.0
	115	414	35	1.94	29.7	168	7.0	3.23	38.8	188	7.0
	150	540	55	2.29	28.4	199	9.0	3.37	36.8	223	10.0
	180	648	80	2.57	27.6	223	11.0	4.30	35.4	251	12.0
250	70	252	5	1.53	33.8	133	1.0	2.67	47.0	155	1.0
	125	450	15	2.35	31.3	203	2.0	4.14	43.0	242	3.0
	180	648	25	3.10	30.0	269	3.0	5.29	39.9	308	4.0
	235	846	40	3.76	29.0	326	5.0	6.29	37.8	367	5.0
	290	1044	60	4.29	28.1	372	6.0	7.20	36.2	420	7.0
315	115	414	5	2.50	33.7	217	1.0	4.41	47.2	257	1.0
	200	720	15	3.82	31.5	331	2.0	6.66	43.1	388	3.0
	285	1026	25	5.02	30.4	436	4.0	8.45	40.1	493	4.0
	375	1350	40	6.05	29.1	525	5.0	10.11	37.9	589	6.0
	460	1656	60	6.89	28.2	597	7.0	11.52	36.4	672	7.0
400	185	666	5	4.02	33.7	348	2.0	7.06	47.2	413	2.0
	325	1170	15	6.24	31.6	542	3.0	10.55	42.4	615	4.0
	465	1674	30	8.06	30.1	699	5.0	13.40	39.5	781	6.0
	605	2178	50	9.54	28.8	827	7.0	15.89	37.4	927	8.0
	750	2700	75	10.92	27.9	947	9.0	18.22	35.8	1062	10.0

Q: Thermal capacity
PWW: Fully pumped heating system, flow temperature/return temperature
t_i: Inlet air/flow temperature
t_e: Outlet air/flow temperature
m_w: Water flow rate
Δp_w: Water-side differential pressure
Δp_{st}: Static differential pressure

Circular hot water heat exchangers for reheating the airflow in air conditioning systems

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

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

Casing air leakage to EN 15727, class D.

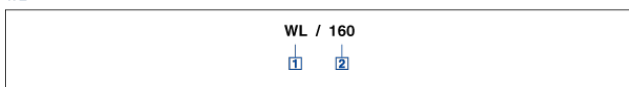
Materials and surfaces

- Casing made of galvanised sheet steel
- Copper tubes
- Aluminium fins

Technical data

- Volume flow rate range: 10 to 750 l/s or 36 to 2700 m³/h
- Thermal capacity: 0.25 – 18 kW
- Maximum water temperature: 100 °C
- Maximum water-side operating pressure: 10 bar
- Water-side differential pressure: 0.3 – 12 kPa
- Static differential pressure: 5 – 80 Pa

WL



1 Type

WL Hot water heat exchanger for VAV terminal units TVR and CAV controllers RN and VFC

2 Nominal size [mm]

100
125
160
200
250
315
400