

Axial Water to Air-Heaters WFH-A / AC



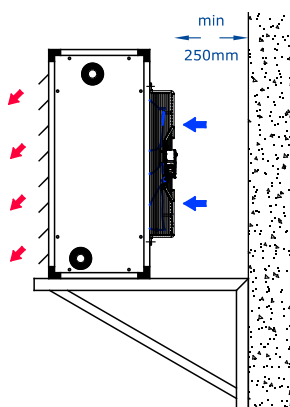
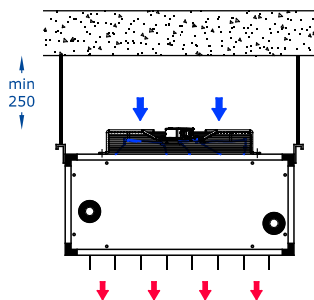
WFH-A

heating units,
typical source: water boilers TH : 60-90C

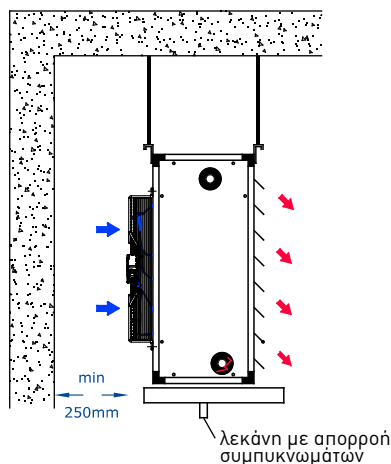
WFH-AC

Heating and Cooling units,
typical source: water heat pumps
TH: 40-60C, TC : 6-8C

WFH-A



WFH-AC



- Wall or ceiling installation
- Aluminum frame, galvanized walls optionally powder coated at RAL colors
- Stainless steel walls as an option
- Condensation stainless steel tray for type WFH-AC
- Coils -heat exchangers Copper/Aluminum standard version: 3/8"-0.4mm , 5/8 for steam up to 4bar and Stainless steel coils for steam up to 15bar
- Axial fans of high quality brands [Ebm-papst, Ziehl abegg, Rosenberg] for high efficiency, long life and low noise

Applications

- ✓ Industries
- ✓ Warehouses, workshops, garages
- ✓ Shopping malls&exhibition areas
- ✓ Sports centers
- ✓ Greenhouses



Axial Water to Air-Heaters WFH-A

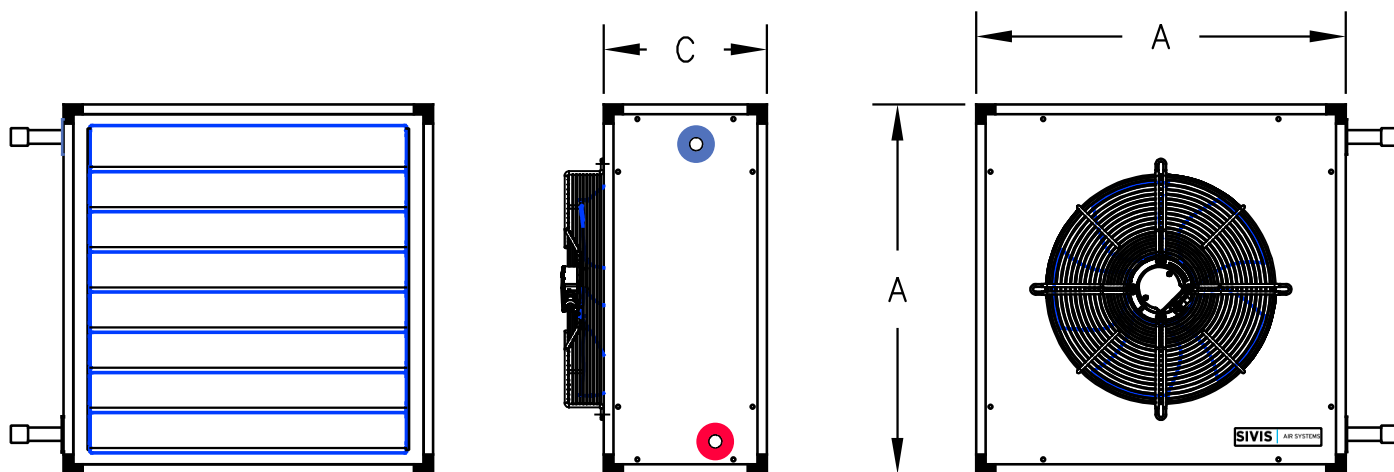
AXIAL AIR-HEATERS

Type WFH-A	12	13	22	23	32	33	42	43
Coil Rows	2	3	2	3	2	3	2	3
Air-Flow [m ³ /h]	2400	2000	3400	3150	5000	4700	7000	6500
Thermal Capacity [kW]	19.42	24.71	31.53	39.4	47.6	64.01	75.63	88.57
Water Flow [m ³ /h]	0.9	1.1	1.4	1.7	2.1	2.8	3.3	3.9
Water Pressure Drop [kPa]	4.65	4.67	5.74	10.27	6.30	14.02	13.97	23.53
ΔT_{AIR} (OUTLET-INLET) [°C]	22.4	34.2	25.6	34.6	26.3	37.6	29.9	37.7
Fan Power [W]	165	165	135/185	135/185	200/340	200/340	590/800	590/800
Voltage [V]	230 or 400	230 or 400	230 or 400	230 or 400	400	400	400	400

Dimensions (mm)

A [mm]	590	590	690	690	770	770	890	890
C [mm]	320	320	340	340	340	340	340	340
Φ [inch]	1	1	1	1	1+1/4	1+1/4	1+1/4	1+1/4

Nom. Conditions for Heating: $T_{TIN,AIR}$ 0°C | T_{WATER} 80°C / 60°C





Axial Water to Air-Heaters WFH-AC

AXIAL COOLING & HEATING UNITS

Type WFH-AC	14	24	34	44
Coil Rows	4	4	4	4
Air-Flow [m ³ /h]	1700	2800	4000	5800
Thermal Capacity [kW]	16.87	27.7	42.16	54.85
Water Flow [m ³ /h]	1.5	2.4	3.7	4.8
Water Pressure Drop [kPa]	10.38	23.33	11.73	19.17
ΔT_{AIR} (OUTLET-INLET) [°C]	27.4	27.3	29.1	26.1
Cooling Capacity (cooling) [kW]	7.57	13.18	15.23	24.61
Sensible Capacity [kW]	5.56	9.58	11.46	18.2
Latent Capacity [kW]	2.02	3.6	3.77	6.42
Water Flow [m ³ /h]	1.3	2.3	2.6	4.2
Water Pressure Drop (cooling) [kPa]	9.76	24.2	22.34	17.11
$\Delta T_{DB,AIR}$ (INLET -OUTLET) [°C]	9.9	10.3	9	9.5
Fan Power [W]	165	135 / 185	200 / 340	590 / 800
Voltage [V]	230 / 400	230 / 400	400	400

Dimensions (mm)				
A [mm]	590	690	770	890
C [mm]	320	340	340	340
Φ [inch]	1	1	1+1/4	1+1/4

Nom. Conditions for Heating: $T_{IN,AIR}$ 0°C | T_{WATER} 50°C / 40°C

Nom. Conditions for Cooling: $T_{IN,AIR}$ 29°C - 47%RH | T_W 7°C / 12°C

SIVIS

AIR SYSTEMS

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EU DECLARATION OF CONFORMITY
Machinery Directive (MD) 2006/42/EU