



## Fan heater for harsh environments, water connection

SWX is a range of fan heaters suitable for environments with strict demands on materials and safety. SWX CS/CE is intended for corrosive and damp environments, e.g. offshore and chemical industries. Delivered with brackets for wall or ceiling mounting.

### Quick and comfortable heating

Frico's fan heaters provide comfortable heat quickly. The SWX fan heater makes it possible to bring comfort to environments with special requirements.

### Operation and economy

Frico's fan heaters have a long life and providing fast and effective heating at a low cost. Smart design facilitates maintenance and makes installation easy.

### Robust design with high protection class

Fan heater SWX has a robust design, adapted to the requirements of harsh environments. Supplied with air director with individually adjustable louvres that direct the air flow on one plane.

### SWX



- The front of SWX CS can be opened for easy cleaning.
- SWX CE has an inspection hatch with quick release.
- SWX CS has a water coil made of stainless steel and SWX CE has an epoxy coated water coil. Corrosion class C5-M.
- Intended for water temperatures up to +150 °C and 16 bar.
- Max. surrounding temperature +70 °C.
- High protection class, IP65

# SWX

SWX CS, for corrosive and damp environments. With water coil of stainless steel. (IP65)

Item number	Type	Heat output* <sup>1</sup> [kW]	Air flow [m <sup>3</sup> /h]	Air flow [m <sup>3</sup> /s]	Sound level* <sup>2</sup> [dB(A)]	$\Delta t$ * <sup>1,3</sup> [°C]	Air throw [m]	Water volume* <sup>4</sup> [l]	Voltage [V]	Amperage [A]	HxWxD [mm]	Weight [kg]
31148	SWXCS12	20	2160	0,6	59	27	7	1,5	230V~	0,51	535x585x705	31
31149	SWXCS22	37,2	4300	1,2	69	25	10	2,4	230V~	1,25	660x740x725	47

SWX CE, for corrosive and damp environments. With epoxy coated water coil. (IP65)

Item number	Type	Heat output* <sup>1</sup> [kW]	Air flow [m <sup>3</sup> /h]	Air flow [m <sup>3</sup> /s]	Sound level* <sup>2</sup> [dB(A)]	$\Delta t$ * <sup>1,3</sup> [°C]	Air throw [m]	Water volume* <sup>4</sup> [l]	Voltage [V]	Amperage [A]	HxWxD [mm]	Weight [kg]
211773	SWXCE12	20,6	2100	0,7	59	29	7	1,5	230V~	0,51	535x585x630	29
211774	SWXCE22	31,8	4200	1,2	69	28	10	2,4	230V~	1,25	660x740x700	45

\*<sup>1</sup>) Applicable at water temperature 80/60 °C, air temperature, in +15 °C.

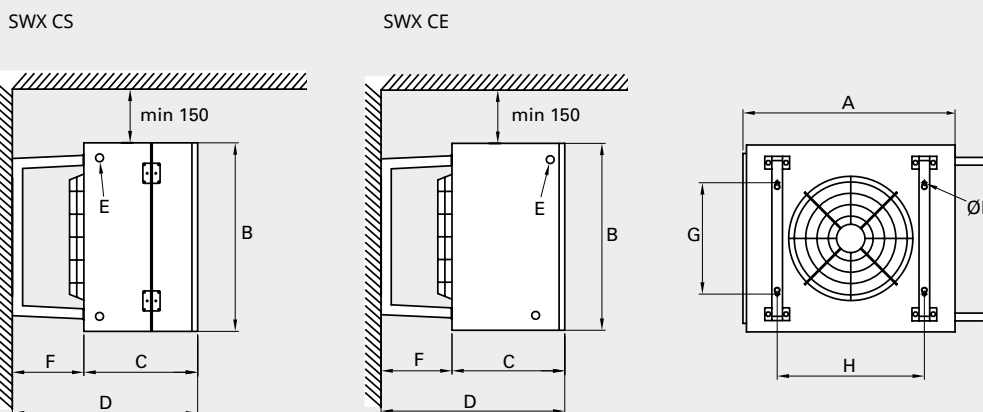
\*<sup>2</sup>) Conditions: Distance to the unit 5 metres.

\*<sup>3</sup>)  $\Delta t$  = temperature rise of passing air at maximum heat output.

\*<sup>4</sup>) Water volume inside water coil.

SWX CS: Casing, air director and brackets made of acid-proof stainless steel, EN 1.4404. Water coil with acid proof stainless steel pipe. Aluminium fins with nano-coating.

SWX CE: Casing, air director and brackets made of acid-proof stainless steel, EN 1.4404. Water coil with copper tube and aluminium fins coated with ElectroFin E-coat. This means that the entire coil is dip-coated with flexible epoxy polymer with 100% coverage. Thermal loss less than 1%.



[mm]	A	B	C	D	E*	F	G	H	ØI
SWX CS12	585	535	395	705	G3/4"	250	330	410	10
SWX CS22	740	660	395	725	G3/4"	270	420	505	10
SWX CE12	550	530	380	630	G3/4"	250	330	410	10
SWX CE22	705	655	430	700	G1"	270	420	505	10

\*) Outside thread

SWX

## Mounting and connection



### Mounting

The fan heaters can be permanently mounted on a wall for horizontal air distribution, or on the ceiling for vertical air distribution. Delivered with brackets for wall or ceiling mounting. For minimum distance, see dimension diagrams.

### Connection

The fan motor is connected to a detached terminal box, which is mounted on a wall next to the unit (0,85 m cable).

### Connection of heating coil

By turning the fan heater, pipe connections are possible on both sides.

## Control and accessories



The front of SWX CS can be opened for easy cleaning.

### Control by thermostat only

The thermostat starts/stops the fan and also controls the heat supply on/off. The fan is set to run on high speed.

Complete regulation kit:

- SWXRT35, room thermostat
- TVV20/25, 2-way valve + SD20, actuator

Note! SWXRT35 can be mounted in corrosive environments, other controls must not be located in corrosive environments.



### SWXRT35, room thermostat

Enclosed room thermostat with visible dial. Setting range 0 – +35 °C. Max. breaking current: 2.7 A. IP65.

### TVV20/25, valves + SD20, actuator

TVV20/25, 2-way regulation valve and SD20, actuator on/off provides a basic form of water regulation, without the possibility of adjusting or shutting the water flow off, e.g. when making maintenance. A suitable thermostat is chosen to regulate TVV20/25 and SD20. DN20/25.

### SWXCDFT/SWXHFT, wire mesh filter

Mounted directly in the fan heater and provides the heating coil with basic protection. The filter is easily accessible for mounting and cleaning. The filter can be reused after cleaning.

Item number	Type	Description	Dimensions
31572	<b>SWXRT35</b>	Room thermostat 0-35 °C, max. 2,7 A, IP65	175x150x100
10638	<b>TVV20*</b>	2-way valve DN20	
10086	<b>TVV25*</b>	2-way valve DN25	
10073	<b>SD20*</b>	Actuator on/off	
31573	<b>SWXCDFT1</b>	Wire mesh filter for SWX CS12	515x425x5
31574	<b>SWXCDFT2</b>	Wire mesh filter for SWX CS22	620x565x5
31575	<b>SWXHFT1</b>	Wire mesh filter for SWX CE12	455x525x15
31576	<b>SWXHFT2</b>	Wire mesh filter for SWX CE22	595x650x15

\*) Only for mounting outside corrosive zones.