



AERON



PC-06
Defroster Systems

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GENERAL DESCRIPTION

Outdoor air or recycled air is filtered before it is heated up to a desired temperature, by the heating battery. The air is then blown onto the window by way of a pressure box, air ducts and defroster nozzles

The Aeron defroster unit is a standard unit for air volumes between 1.000 and 2.200 m³/h

The standard unit comes with a two-speed centrifugal fan, a filter section with G-85 filter, a heating battery and a pressure box.

The defroster unit can be delivered in two different designs; for wall mounting or for floor mounting, e.g below raised floor.

The heating battery is either an electrical or a hot water heating battery, standard heating capacity is 15 kW or 20kW. The electrical battery comes with a 3-step regulation and can be delivered in different voltages. The hot water battery comes with a stepless regulation

The standard defroster nozzle has a stepless air-volume control.

Recommended airflow is 40 m³/h in each nozzle.

Reference values:

Air flow: 1.800 m³/h

Fan Voltage: 1x230 V 60Hz

Hot water +80 °C in +60°C out

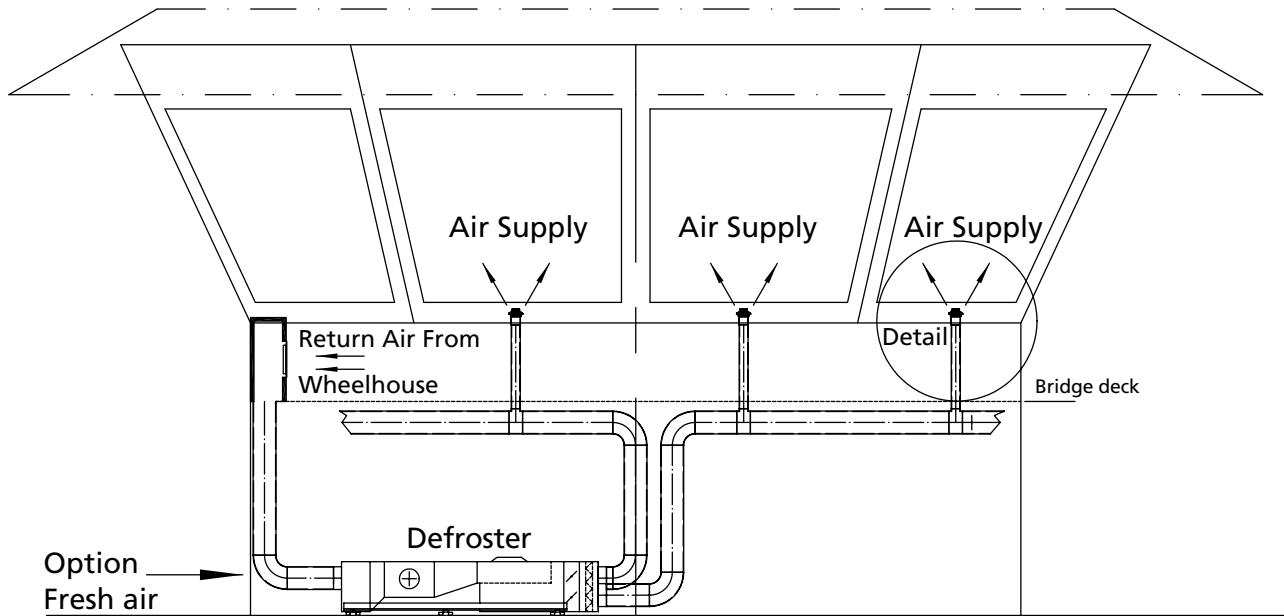
Entering air temperature is +20°C

The Aeron defroster unit can of course be tailored to the shipyard's or ship owner's own specifications.



AERON DEFROSTER UNIT NOZZLE

PRINCIPLE DRAWING OF DEFROSTER PLANT

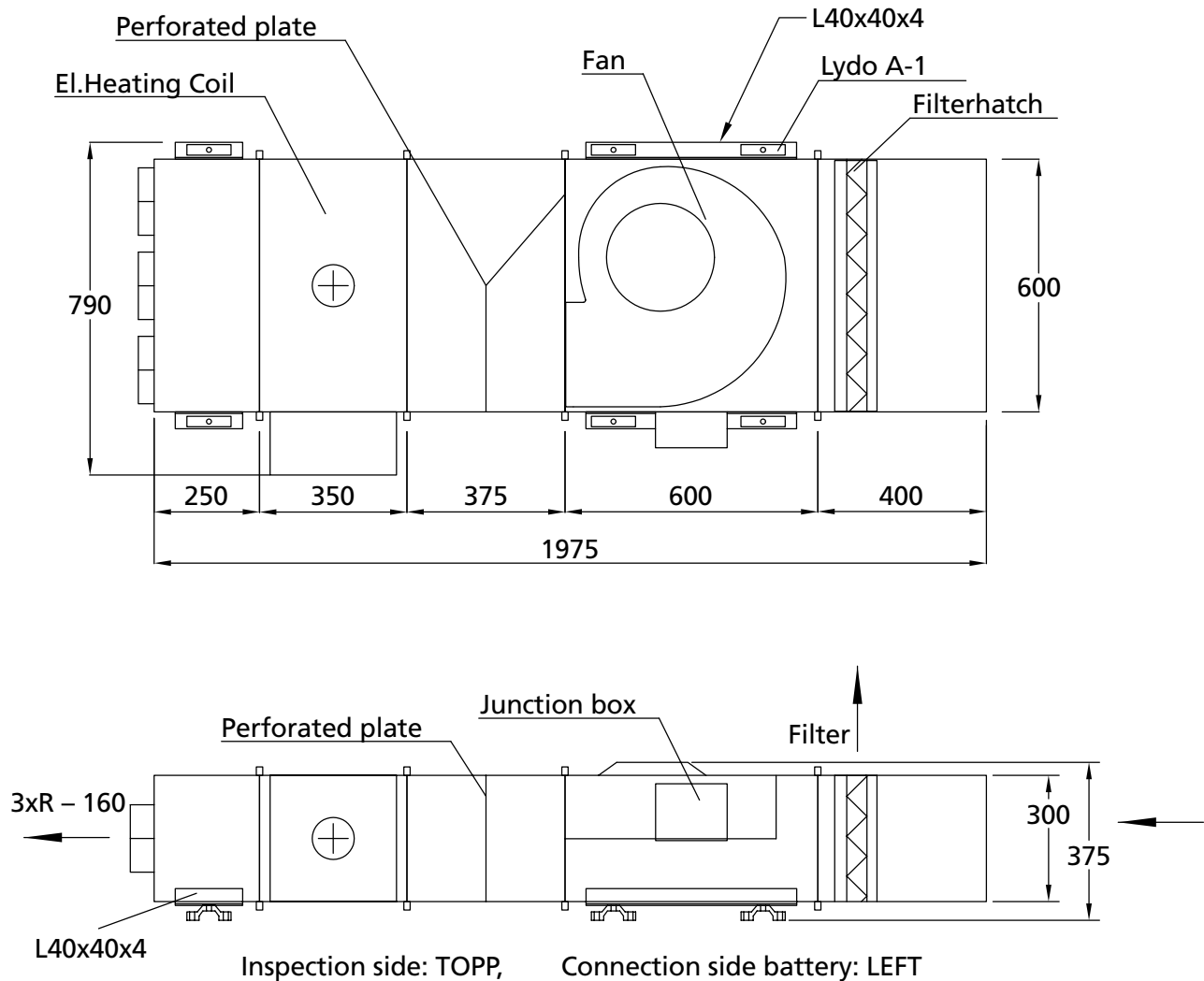


Our Nozzles come with an optional slanted base for optional slanted base for outward slanting windscreens so the air will hit the pane at the proper angle.

AERON DEFROSTER UNIT 15 KW EL-BATTERI



PRINCIPLE DRAWING OF DEFROSTER UNIT



FAN DATA:

1x230V +/- 10% 60Hz
 1,25 kW PITHCLE
 5,5A 1360 20uF/400V
 Delta P/FA min. 480 Pa
 Protection Class IP54

AIR-SIDE DATA

Barometric Pressure1	01,325 kPa
Density	1,225 kg/m3
Volume	0,500 m³/s
Face Velocity	2,78 m/s
Entering Temperature	20°C
Leaving Temperature	44,4°C
Air Pressure Drop	2,0 Pa

EL.BATT. 15 KW.

Voltage	3 x 230 V	
Regulation step 1	5,0 kW	12,6 A
Regulation step 2	9,8 kW	24,6 A
Regulation step 3	14,8 kW	37,8 A
Min. air flow	1,5 m/s	

PHYSICAL DATA

Dry Weight	12 kg
Batt. / Frame	Galvanized Steel
Heating element	Stainless Steel
Size (B x H x L)	770 x 340 x 350
Protection Class	IP 22