MARINE AXIAL-FLOW FANS WMOR

1. DESTINATION

The WMOR are new axial fans giving reduced power consumption and lover sound level.
Marine axial-flow WMOR fans are destined for operation in ventilation systems of seagoing ships of unrestricted cruising area and offshore objects. offshore objects.

2. OPERATING CONDITIONS

Working parameters of fans are presented on performance curves P_s =f(V) with respect to innert gas of specific density ρ= 1,2 kg/m^3 and temperature t= 20 deg.C, where :

P_s (Pa) - fan static pressure
V(m^3/h) - air displacement

Performance curves are provided on request for specified by the Customer fans'operating points.

Allowable tolerances of working parameters of fans (air displacement, pressure, power consumption and efficiency) are in accordance with standard PN-77/M-43021.
Temperature of conveyed medium should not exceed +45 deg.C, dust contents 0,3 g/m^3.

3. CONSTRUCTION

- h o u s i n g : steel pipe ended with drilled flanges, machine bended. On the housing a terminal box with cable gland for supply connection cable is mounted.

Sizes of cable glands: DN=200-355 Pg20
DN=400-500 Pg27
DN=560-800 Pg33
DN=1000-1600 Pg42

Housing of fan is provided with motor support, to which an electric motor-impeller set is bolted.

- i m p e l l e r : made of aluminium alloys sea-water resistant. Other material (PPG, PAG) on request.
Blades of high-efficiency Aerofoil profiles, adjustable at standstill.
Impeller blades statically and dynamically balanced.

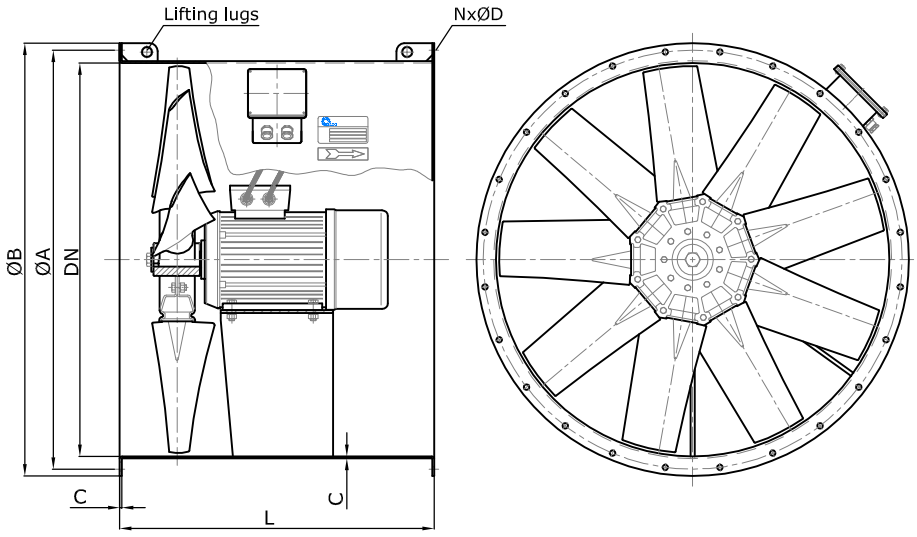
- e l e c t r i c m o t o r : induction, squirrel-cage. three-phase, in marine execution, suitable for 50 or 60 Hz electric istallation.
All the motors are of high-efficiency IE2 class "GREEN responsibility".

4. SURFACE TREATMENT

Standard treatment - hot-dip galvanized.
On request fans may be painted with marine paints set agreed with the Buyer.

5. TYPES AND SIZES OF FANS

-nominal diameters: DN=200 DN=500 DN=1000
DN=250 DN=560 DN=1120
DN=315 DN=630 DN=1250
DN=355 DN=710 DN=1400
DN=400 DN=800 DN=1600
DN=450 DN=900



Fantype	DN	A	B	L	N	D	C	Weight* kg
WMOR 200	200	260	290	350	8	12	2	6,4
WMOR 250	250	310	340	380	8	12	2	8,5
WMOR 315	315	370	405	400	12	12	3	16,7
WMOR 355	355	410	445	400	12	12	3	20,6
WMOR 400	400	460	490	500	12	12	3	25,4
WMOR 450	450	510	540	500	12	12	3	31
WMOR 500	500	560	590	600	16	12	3	37
WMOR 560	560	640	690	630	16	14	3	44
WMOR 630	630	695	730	650	16	14	3	50
WMOR 710	710	775	810	700	24	14	4	80
WMOR 800	800	865	900	750	24	14	4	96
WMOR 900	900	965	1000	800	32	14	4	114
WMOR 1000	1000	1065	1100	900	32	14	4	141
WMOR 1120	1120	1205	1250	1000	32	14	4	174
WMOR 1250	1250	1335	1380	1100	32	14	5	264
WMOR 1400	1400	1485	1530	1200	32	14	5	320
WMOR 1600	1600	1685	1730	1300	32	14	5	394

*Weight of fan without motor.

6. NON-SPARKING EXECUTION

WMOR fans may be delivered in non-sparking execution for use in explosion hazardous areas.
Fans in explosion-proof execution are constructed in compliance with requirements of classification societes and are provided with certified, Ex-proof electric motors.

Fans in explosion-proof execution are fitted with brass ining on inner surface of housing in way of impeller impeller.

WMOR Ex-proof fans are type approved by:

Bureau Veritas, Certificate No. 23561/AO BV
Germanischer Lloyd, Certificate No. 40 256-01 HH
American Bureau of Shippinf, Certificate No. 14-gd1300007-PDA

6. MARKING

of marine axial-flow fan WMOR type of nominal diameter DN=1000 mm, with impeller hub diameter 600 mm and with blades pitch 33°:

AXIAL-FLOW FAN WMOR 1000/600-33°

For Ex-proof fans additional mark Ex:

AXIAL-FLOW FAN WMOR 1000/600-33°-Ex