CBZ系列舰船用防爆轴流通风机

CBZ series marine explosion-proof axial fans



概述General

CBZ系列舰船用防爆轴流通风机（以下简称“防爆通风机”）是按照GB11800-2008《舰船用防爆轴流通风机》、GB3836.1-2000《爆炸性环境用防爆电气设备》中的1通用要求、GB3836.2-2000《爆炸性环境用防爆电气设备、隔爆型电气设备“d”》的有关规定和中国船舶检验局现行《钢制海船入级和建造规范》的有关规定设计制造的。

本系列防爆通风机经中华人民共和国国家防爆电气产品质量监督检验中心检验合格，取得了防爆合格证，同时也经中华人民共和国船舶检验局检验合格，取得了产品船检证书。

CBZ series marine explosion-proof axial fans (the explosion-proof fan) are designed and manufactured according to GB11800-89 Marine Explosion-Proof Axial Fans, GB3836.1-2000《Electrical Apparatus For Explosive Atmosphere》，GB3836.2-2000《Electrical Apparatus For Explosive Atmospheres, and Explosion-Proof Explosion - Proof Electrical Equipment"d'》，《Steel Sea Ship in Class and Building Rules》

This series fans have been examined and proved up to standard by the Quality Supervision Center of Explosion- Proof Electric Apparatus of the PRC and have got the certificate of inspection. They have also been examined by the Register of Shipping of PRC and have got the certificate.

特点 Features

适用于抽除船舶上油舱、货舱、泵舱、蓄电池舱、弹药舱、飞机库、油漆间等场所含有易燃、易爆的混合型气体或蒸气，也适用于船舶其他舱室的通风换气或陆上各部门相应的场所。

防爆、运转安全可靠、防腐蚀性能好、抗摇摆、振动小和冲击性能强。

Theses explosion- proof fans are best suited to pumping out gas mixtures or vapor containing combustibles and explosives in oil cabins holds, pump-rooms, battery cabins, ammunition cabins, hangars, paint houses, etc. They can also be used for ventilation of other compartments of shipping and corresponding place of land's.

Explosion-proof, safe and reliable operation, anticorrosive, swing resistance and shock resistance.

结构形式 structure

防爆通风机有三种结构，即I型（甲板式）、II型（管道式）、和III型（隔舱式）、整机结构，均为无火花型。

I型防爆风机装在机架上部，机架周围2目/英寸不锈钢网，整机立式安装在甲板上，可用于抽风和送风。

II型防爆通风机不带风帽，防爆电动机为内装式，有静叶撑脚固定在机壳上，可立式或卧式安装，也可安装在甲板上，可用于抽风和送风。

根据用户特殊需要，可制成III型结构，即风机和电机分隔舱型式，中间加传动装置，密封填料函和挠性联轴器的结构，主要用于排除危险舱室的气体。

防爆通风机制成从防爆风机端正视，叶轮按顺时针方向旋转的结构。

There are three structural types: type I (deck type), type II (tube type) and type III (separate cabins type). The construction is non- sparking.

Type I explosion-proof fan has an explosion-proof motor installed on the top of the frame and surrounded with 2 mesh/inch stainless stcel screen. The fan is vertically fixed on the deck. It can be for air supply or air exhaust.

Type ll explosion-proof fan has no hood and motor is built-in type, which is fixed on the housing by support vertically or horizontally, and can also be installed and flexible coupling. It is for gas exhaust of dangerous compartment.

According to the customer 's special requirement, the fan can be made into type II structure, the fan and the motor are separated. It consists of a driving device, glands and flexible coupling. It is for gas exhaust of dangerous compartment.

Taking a front view from the motor, impeller rotates clockwise.

型号说明Model explanation

C B Z - 80 A Ⅱ（Ⅰ）

管道式TUBE TYPE (甲板式deck type)

叶轮代号 impeller code

叶轮直径cm数impeller cm

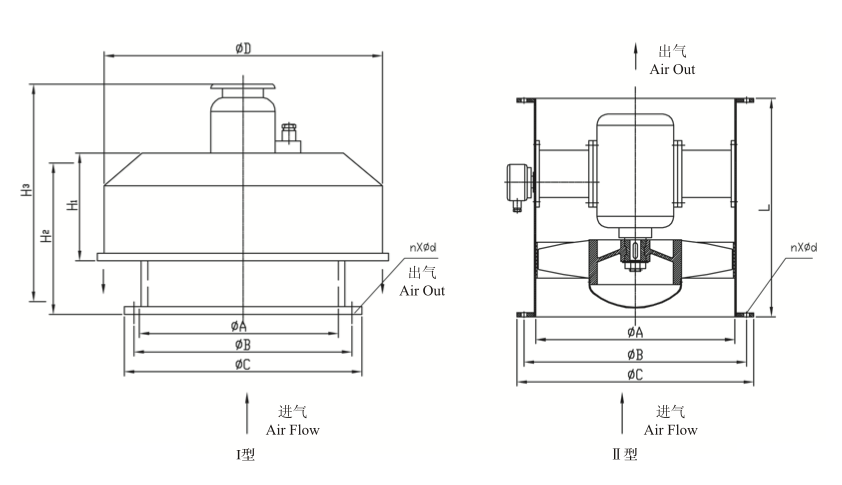
轴流风机axial fan

防爆 explosion-proof

舰船用 marine or navy

主要性能及外形安装尺寸

Main Parameters & Outline Dimensions



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Model | Flow rate  m3/h | Total Pressure  Pa | Static pressure  Pa | Speed  r/min | Motor | | | Dimensions | | | | | | | | | Weight | |
| Freq  Hz | Power  KW | Model | ФA | ФB | ФC | ФD | H1 | H2 | H3 | L | nxФd | I | II |
| CBZ-30A | 1200  1800 | 250(26)  170(18) | 230(24)  140(15) | 2920 | 50 | 0.75 | YB801-2-H | Ф300 | Ф345 | Ф375 | Ф600 | 200 | 405 | 640 | 400 | 8\*Ф12 | 83 | 78 |
| 1400  2100 | 360(37)  240(25) | 330(34)  200(21) | 3500 | 60 |
| CBZ-30B | 1000  1200 | 230(24)  150(16) | 220(23)  140(15) | 2920 | 50 | 84 | 79 |
| 1200  1400 | 290(34)  220(23) | 280(33)  200(21) | 3500 | 60 |
| CBZ-35A | 3000  4500 | 360(37)  240(25) | 320(33)  140(15) | 2920 | 50 | 1.1 | YB802-2-H | Ф350 | Ф395 | Ф425 | Ф700 | 220 | 425 | 660 | 450 | 8\*Ф12 | 92 | 86 |
| 3600  3400 | 520(53)  340(35) | 460(47)  200(21) | 3500 | 60 |
| CBZ-35B | 1800  3000 | 360(37)  220(23) | 340(35)  180(19) | 2920 | 50 | 91 | 85 |
| 2100  3600 | 510(52)  330(34) | 490(50)  270(28) | 3500 | 60 |
| CBZ-40A | 4500  6000 | 550(56)  470(48) | 490(50)  370(38) | 2920 | 50 | 2.2 | YB90L-2-H | Ф400 | Ф445 | Ф475 | Ф800 | 250 | 485 | 730 | 500 | 12\*Ф12 | 97 | 90 |
| 5400  7200 | 800(81)  680(69) | 710(72)  530(54) | 3500 | 60 |
| CBZ-40B | 3000  4500 | 490(50)  380(39) | 460(47)  320(33) | 2920 | 50 | 96 | 89 |
| 3600  5400 | 650(66)  540(55) | 600(61)  460(47) | 3500 | 60 |
| CBZ-50A | 6000 | 210(22) | 170(18) | 1460 | 50 | 1.1 | YB90S-4-H | Ф500 | Ф560 | Ф595 | Ф900 | 280 | 515 | 720 | 550 | 12\*Ф15 | 99 | 91 |
| 7200 | 300(31) | 240(25) | 1750 | 60 |
| CBZ-50B | 6000  9000 | 640(65)  560(57) | 600(61)  460(47) | 2920 | 50 | 3 | YB100L-2-H | 780 | 111 | 103 |
| 7200  10000 | 920(93)  790(80) | 860(87)  670(68) | 3500 | 60 | 4 | YB112M-2-H | 810 | 119 | 111 |
| CBZ-50C | 9000  12000 | 750(76)  630(64) | 650(66)  460(47) | 2920 | 50 | 4 | YB112M-2-H | 810 | 550 | 12\*Ф15 | 119 | 119 |
| 10000  14000 | 1060(107)  890(90) | 940(95)  660(67) | 3500 | 60 | 5.5 | YB132S1-2-H | 850 | 143 | 135 |
| CBZ-60 | 9000  12000 | 260(27)  220(23) | 220(23)  140(15) | 1460 | 50 | 2.2 | YB100L1-4-H | Ф600 | Ф660 | Ф695 | Ф10  20 | 300 | 545 | 800 | 550 | 12\*Ф15 | 140 | 130 |
| 10000  14000 | 380(39)  310(32) | 320(33)  200(21) | 1750 | 60 |
| CBZ-70A | 12000  15000  18000 | 410(42)  350(36)  280(29) | 370(38)  280(29)  180(19) | 1460 | 50 | 3 | YB100L1-4-H | Ф700 | Ф760 | Ф795 | Ф12  00 | 320 | 585 | 830 | 700 | 16\*Ф15 | 218 | 205 |
| 14000  18000  21000 | 590(60)  500(51)  410(42) | 530(54)  400(41)  280(29) | 1750 | 60 | 5.5 | YB132S-4-H | 860 | 229 | 216 |
| CBZ-70B | 9000  12000  15000 | 390(40)  270(28)  210(22) | 370(38)  230(24)  140(15) | 1460 | 50 | 2.2 | YB100L1-4-H | 830 | 216 | 203 |
| 10000  14000  18000 | 560(57)  390(40)  300(31) | 530(54)  330(34)  200(21) | 1750 | 60 | 4 | YB112M-4-H | 830 | 218 | 205 |
| CBZ-75 | 15000  18000  21000  24000 | 510(52)  440(45)  320(33)  270(28) | 460(47)  370(38)  220(23)  140(15) | 1460 | 50 | 4 | YB112M-4-H | Ф750 | Ф820 | Ф860 | Ф12  80 | 350 | 625 | 880 | 700 | 16\*Ф19 | 240 | 225 |
| 18000  21000  25000  28000 | 730(74)  630(64)  470(48)  380(39) | 660(67)  530(54)  320(33)  200(21) | 1750 | 60 | 7.5 | YB132M-4-H | 960 | 267 | 252 |
| CBZ-80A | 21000  24000  27000  30000 | 640(65)  560(57)  500(51)  370(38) | 560(57)  460(47)  370(38)  210(22) | 1460 | 50 | 7.5 | YB132M-3-H | Ф800 | Ф870 | Ф910 | Ф13  56 | 380 | 665 | 985 | 780 | 16\*Ф19 | 255 | 240 |
| 24000  27000  30000  36000 | 820(82)  800(81)  720(73)  550(56) | 720(73)  660(67)  530(54)  310(32) | 1750 | 60 | 11 | YB160M-4-H | 1060 | 308 | 293 |
| CBZ-80B | 18000  21000  24000  27000 | 520(53)  450(46)  380(39)  290(30) | 460(47)  370(38)  280(29)  160(17) | 1460 | 50 | 5.5 | YB132S-4-H | 945 | 240 | 225 |
| 21000  25000  28000  32000 | 740(75)  640(65)  540(55)  420(43) | 660(67)  530(54)  400(41)  230(24) | 1750 | 60 | 7.5 | YB132M-4-H | 985 | 255 | 240 |
| CBZ-90A | 24000  27000  30000  33000 | 660(67)  540(55)  470(48)  330(34) | 600(61)  460(47)  370(38)  210(22) | 1460 | 50 | 7.5 | YB132M-4-H | Ф900 | Ф970 | Ф10  10 | Ф15  00 | 400 | 705 | 1010 | 850 | 16\*Ф19 | 283 | 265 |
| 28000  32000  36000  40000 | 820(83)  770(78)  680(69)  480(49) | 710(72)  660(67)  530(54)  300(31) | 1750 | 60 | 15 | YB160L-4-H | 1085 | 336 | 318 |
| CBZ-90B | 27000  30000  33000  36000 | 710(72)  660(67)  580(59)  520(53) | 620(63)  560(57)  460(47)  370(38) | 1460 | 50 | 11 | YB160M-4-H | 1085 | 336 | 318 |
| 32000  36000  40000  42000 | 930(94)  910(92)  840(85)  790(80) | 790(80)  760(77)  660(67)  530(54) | 1750 | 60 | 18.5 | YB180M-4-H | 11  25 | 354 | 336 |
| CBZ-90C | 30000  33000  36000 | 690(70)  670(68)  630(67) | 590(60)  540(55)  480(52) | 1460 | 50 | 15 | YB160L-4-H | Ф900 | Ф970 | Ф10  10 | Ф15  00 | 400 | 705 | 11  25 | 850 | 16\*Ф19 | 354 | 336 |
| 36000  39000  43000 | 960(97)  930(94)  8000(81) | 820(83)  750(76)  590(60) | 1750 | 60 | 18.5 | YB180M-4-H | 11  60 | 408 | 390 |
| CBZ-10  0A | 36000  39000 | 330(34)  300(31) | 230(24)  190(20) | 970 | 50 | 7.5 | YB160M-6-H | Ф10  00 | Ф10  70 | Ф11  10 | Ф18  00 | 480 | 805 | 11  40 | 900 | 20\*Ф19 | 347 | 327 |
| 43000  46000 | 470(48)  430(44) | 330(34)  270(28) | 11  6050 | 60 | 11 | YB160L-6-H | 11  80 | 365 | 345 |
| CBZ-10  0B | 39000  42000  48000 | 570(58)  500(51)  450(46) | 460(47)  370(38)  280(29) | 1460 | 50 | 11 | YB160M-4-H | 11  40 | 347 | 327 |
| 46000  50000  57000 | 800(81)  720(73)  640(65) | 640(65)  530(54)  400(41) | 1750 | 60 | 18.5 | YB180M-4-H | 11  80 | 365 | 345 |
| CBZ-10  0C | 42000  48000  54000 | 690(70)  630(64)  590(60) | 560(57)  460(47)  370(38) | 1460 | 50 | 15 | YB160L-4-H | 1180 | 365 | 340 |
| 50000  57000  60000 | 900(91)  900(91)  800(81) | 710(72)  660(67)  530(54) | 1750 | 60 | 30 | YB200L-4-H | 1235 | 469 | 449 |
| CBZ-10  0D | 36000  39000 | 840(85)  710(72) | 740(75)  600(61) | 1460 | 50 | 15 | YB160L-4-H | 1180 | 365 | 345 |
| 43000  46000 | 1200(121)  1020(103) | 1060  (107)  860(87) | 1750 | 60 | 30 | YB200L-4-H | 1235 | 469 | 449 |
| CBZ-11  0A | 42000  48000  54000  60000 | 550(56)  490(50)  450(46)  380(39) | 460(47)  370(38)  300(31)  200(21) | 970 | 50 | 11 | YB160L-6-H | Ф11  00 | Ф11  70 | Ф12  10 | Ф20  00 | 500 | 845 | 1265 | 10  00 | 20\*Ф19 | 570 | 545 |
| 50000  57000  65000  72000 | 790(80)  700(71)  650(66)  550(56) | 660(67)  530(54)  430(44)  290(30) | 1160 | 60 | 22 | YB200L2-6-H | 1320 | 575 | 550 |
| CBZ-11  0B | 42000  48000 | 310(32)  260(27) | 220(23)  140(15) | 970 | 50 | 11 | YB160L-6-H | 1170 | 351 | 326 |
| 50000  57000 | 450（46）  370（38） | 320(33)  200(21) | 1160 | 60 | 15 | YB180L-6-H | 1210 | 475 | 350 |
| CBZ-11  0C | 42000  48000  54000 | 830(84)  770(78)  710(72) | 740(75)  650(66)  560(57) | 1460 | 50 | 18.5 | YB180M-4-H | 1245 | 530 | 505 |
| 50000  57000  65000 | 1100(112)  970(98)  900(91) | 1000  (102)  800(81)  770(78) | 1750 | 60 | 30 | YB200L-4-H | 1320 | 610 | 585 |
| CBZ-12  0A | 60000  72000 | 410（42）  340（35） | 280(29)  150(16) | 970 | 50 | 15 | YB180L-6-H | Ф12  00 | Ф12  80 | Ф13  30 | Ф21  50 | 620 | 985 | 1435 | 10  00  12  00 | 20\*Ф24 | 700 | 665 |
| 72000  86000 | 590(60)  480(49) | 400(41)  210(22) | 1160 | 60 | 22 | YB200L2-6-H | 1460 | 705 | 670 |
| CBZ-12  0B | 60000  72000  84000 | 600(61)  560(57)  480(49) | 470(48)  370(38)  230(24) | 970 | 50 | 18.5 | YB200L1-6-H | 14  90 | 705 | 670 |
| 72000  86000  1000  00 | 860(87)  800(81)  690(70) | 670(68)  530(54)  330(34) | 1160 | 60 | 37 | YB250M-6-H | 1545 | 845 | 810 |
| CBZ-14  0A | 72000  84000  96000 | 540(65)  530(59)  470(48) | 440(45)  410(42)  320(33) | 970 | 50 | 22 |  | Ф14  00 | Ф14  80 | Ф15  30 | Ф24  50 | 750 | 11  25 | 1460 | 12  00 | 20\*Ф24 | 950 | 900 |
| 86000  100000  115000 | 810(82)  790(80)  710(72) | 650(66)  600(61)  460(47) | 1160 | 60 | 30 |  | 1525 | 10  68 | 10  80 |
| CBZ-14  0B | 84000  115000 | 710(72)  490(50) | 540(55)  230(24) | 970 | 50 | 30 |  | 1460 | 950 | 900 |
| 100000  140000 | 1180(119)  720(73) | 900(91)  420(43) | 1160 | 60 | 55 |  | 1525 | 13  00 | 10  68 | 10  18 |