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 ratem3/h | Total PressurePa | Static pressurePa | Speedr/min | Motor | Dimensions | Weight |
| FreqHz | PowerKW | Model | ФA | ФB | ФC | ФD | H1 | H2 | H3 | L | nxФd | I | II |
| CBZ-30A | 12001800 | 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 |
| 14002100 | 360(37)240(25) | 330(34)200(21) | 3500 | 60 |
| CBZ-30B | 10001200 | 230(24)150(16) | 220(23)140(15) | 2920 | 50 | 84 | 79 |
| 12001400 | 290(34)220(23) | 280(33)200(21) | 3500 | 60 |
| CBZ-35A | 30004500 | 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 |
| 36003400 | 520(53)340(35) | 460(47)200(21) | 3500 | 60 |
| CBZ-35B | 18003000 | 360(37)220(23) | 340(35)180(19) | 2920 | 50 | 91 | 85 |
| 21003600 | 510(52)330(34) | 490(50)270(28) | 3500 | 60 |
| CBZ-40A | 45006000 | 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 |
| 54007200 | 800(81)680(69) | 710(72)530(54) | 3500 | 60 |
| CBZ-40B | 30004500 | 490(50)380(39) | 460(47)320(33) | 2920 | 50 | 96 | 89 |
| 36005400 | 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 | 60009000 | 640(65)560(57) | 600(61)460(47) | 2920 | 50 | 3 | YB100L-2-H | 780 | 111 | 103 |
| 720010000 | 920(93)790(80) | 860(87)670(68) | 3500 | 60 | 4 | YB112M-2-H | 810 | 119 | 111 |
| CBZ-50C | 900012000 | 750(76)630(64) | 650(66)460(47) | 2920 | 50 | 4 | YB112M-2-H | 810 | 550 | 12\*Ф15 | 119 | 119 |
| 1000014000 | 1060(107)890(90) | 940(95)660(67) | 3500 | 60 | 5.5 | YB132S1-2-H | 850 | 143 | 135 |
| CBZ-60 | 900012000 | 260(27)220(23) | 220(23)140(15) | 1460 | 50 | 2.2 | YB100L1-4-H | Ф600 | Ф660 | Ф695 | Ф1020 | 300 | 545 | 800 | 550 | 12\*Ф15 | 140 | 130 |
| 1000014000 | 380(39)310(32) | 320(33)200(21) | 1750 | 60 |
| CBZ-70A | 120001500018000 | 410(42)350(36)280(29) | 370(38)280(29)180(19) | 1460 | 50 | 3 | YB100L1-4-H | Ф700 | Ф760 | Ф795 | Ф1200 | 320 | 585 | 830 | 700 | 16\*Ф15 | 218 | 205 |
| 140001800021000 | 590(60)500(51)410(42) | 530(54)400(41)280(29) | 1750 | 60 | 5.5 | YB132S-4-H | 860 | 229 | 216 |
| CBZ-70B | 90001200015000 | 390(40)270(28)210(22) | 370(38)230(24)140(15) | 1460 | 50 | 2.2 | YB100L1-4-H | 830 | 216 | 203 |
| 100001400018000 | 560(57)390(40)300(31) | 530(54)330(34)200(21) | 1750 | 60 | 4 | YB112M-4-H | 830 | 218 | 205 |
| CBZ-75 | 15000180002100024000 | 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 | Ф1280 | 350 | 625 | 880 | 700 | 16\*Ф19 | 240 | 225 |
| 18000210002500028000 | 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 | 21000240002700030000 | 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 | Ф1356 | 380 | 665 | 985 | 780 | 16\*Ф19 | 255 | 240 |
| 24000270003000036000 | 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 | 18000210002400027000 | 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 |
| 21000250002800032000 | 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 | 24000270003000033000 | 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 | Ф1010 | Ф1500 | 400 | 705 | 1010 | 850 | 16\*Ф19 | 283 | 265 |
| 28000320003600040000 | 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 | 27000300003300036000 | 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 |
| 32000360004000042000 | 930(94)910(92)840(85)790(80) | 790(80)760(77)660(67)530(54) | 1750 | 60 | 18.5 | YB180M-4-H | 1125 | 354 | 336 |
| CBZ-90C | 300003300036000 | 690(70)670(68)630(67) | 590(60)540(55)480(52) | 1460 | 50 | 15 | YB160L-4-H | Ф900 | Ф970 | Ф1010 | Ф1500 | 400 | 705 | 1125 | 850 | 16\*Ф19 | 354 | 336 |
| 360003900043000 | 960(97)930(94)8000(81) | 820(83)750(76)590(60) | 1750 | 60 | 18.5 | YB180M-4-H | 1160 | 408 | 390 |
| CBZ-100A | 3600039000 | 330(34)300(31) | 230(24)190(20) | 970 | 50 | 7.5 | YB160M-6-H | Ф1000 | Ф1070 | Ф1110 | Ф1800 | 480 | 805 | 1140 | 900 | 20\*Ф19 | 347 | 327 |
| 4300046000 | 470(48)430(44) | 330(34)270(28) | 116050 | 60 | 11 | YB160L-6-H | 1180 | 365 | 345 |
| CBZ-100B | 390004200048000 | 570(58)500(51)450(46) | 460(47)370(38)280(29) | 1460 | 50 | 11 | YB160M-4-H | 1140 | 347 | 327 |
| 460005000057000 | 800(81)720(73)640(65) | 640(65)530(54)400(41) | 1750 | 60 | 18.5 | YB180M-4-H | 1180 | 365 | 345 |
| CBZ-100C | 420004800054000 | 690(70)630(64)590(60) | 560(57)460(47)370(38) | 1460 | 50 | 15 | YB160L-4-H | 1180 | 365 | 340 |
| 500005700060000 | 900(91)900(91)800(81) | 710(72)660(67)530(54) | 1750 | 60 | 30 | YB200L-4-H | 1235 | 469 | 449 |
| CBZ-100D | 3600039000 | 840(85)710(72) | 740(75)600(61) | 1460 | 50 | 15 | YB160L-4-H | 1180 | 365 | 345 |
| 4300046000 | 1200(121)1020(103) | 1060(107)860(87) | 1750 | 60 | 30 | YB200L-4-H | 1235 | 469 | 449 |
| CBZ-110A | 42000480005400060000 | 550(56)490(50)450(46)380(39) | 460(47)370(38)300(31)200(21) | 970 | 50 | 11 | YB160L-6-H | Ф1100 | Ф1170 | Ф1210 | Ф2000 | 500 | 845 | 1265 | 1000 | 20\*Ф19 | 570 | 545 |
| 50000570006500072000 | 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-110B | 4200048000 | 310(32)260(27) | 220(23)140(15) | 970 | 50 | 11 | YB160L-6-H | 1170 | 351 | 326 |
| 5000057000 | 450（46）370（38） | 320(33)200(21) | 1160 | 60 | 15 | YB180L-6-H | 1210 | 475 | 350 |
| CBZ-110C | 420004800054000 | 830(84)770(78)710(72) | 740(75)650(66)560(57) | 1460 | 50 | 18.5 | YB180M-4-H | 1245 | 530 | 505 |
| 500005700065000 | 1100(112)970(98)900(91) | 1000(102)800(81)770(78) | 1750 | 60 | 30 | YB200L-4-H | 1320 | 610 | 585 |
| CBZ-120A | 6000072000 | 410（42）340（35） | 280(29)150(16) | 970 | 50 | 15 | YB180L-6-H | Ф1200 | Ф1280 | Ф1330 | Ф2150 | 620 | 985 | 1435 | 10001200 | 20\*Ф24 | 700 | 665 |
| 7200086000 | 590(60)480(49) | 400(41)210(22) | 1160 | 60 | 22 | YB200L2-6-H | 1460 | 705 | 670 |
| CBZ-120B | 600007200084000 | 600(61)560(57)480(49) | 470(48)370(38)230(24) | 970 | 50 | 18.5 | YB200L1-6-H | 1490 | 705 | 670 |
| 7200086000100000 | 860(87)800(81)690(70) | 670(68)530(54)330(34) | 1160 | 60 | 37 | YB250M-6-H | 1545 | 845 | 810 |
| CBZ-140A | 720008400096000 | 540(65)530(59)470(48) | 440(45)410(42)320(33) | 970 | 50 | 22 |  | Ф1400 | Ф1480 | Ф1530 | Ф2450 | 750 | 1125 | 1460 | 1200 | 20\*Ф24 | 950 | 900 |
| 86000100000115000 | 810(82)790(80)710(72) | 650(66)600(61)460(47) | 1160 | 60 | 30 |  | 1525 | 1068 | 1080 |
| CBZ-140B | 84000115000 | 710(72)490(50) | 540(55)230(24) | 970 | 50 | 30 |  | 1460 | 950 | 900 |
| 100000140000 | 1180(119)720(73) | 900(91)420(43) | 1160 | 60 | 55 |  | 1525 | 1300 | 1068 | 1018 |