



Centrifugal Fan NO. 4-79、4-72



4-79/70 (72) 型离心风机



ISO14001



ISO9001



国家质量管理奖

4-79、4-70(72)型离心式通风机

4-79、4-70(72)Series centrifugal fans

一、概述

4-79、4-70(72)型离心式通风机系引进日本ミツヤ株式会社的先进技术并通过公司工程技术中心进行吸收、消化、创新、开发而成功的。系列入国家级计划开发项目。其性能指标优于我国通用的4-79型、4-72型离心式通风机，该风机较老式风机噪声低5~8dB(A)，外形尺寸比较老式风机紧凑，效率及比A声级优于机械工业部制订的A级标准。4-70型通风机共15种机号，风量930~154,000m³/h，风压170~2,950Pa；4-79型通风机共20种机号，风量1,100~438,000m³/h，风压230~3,320Pa，用户可根据不同参数选择。该风机因效率高，噪声低、运行可靠而畅销全国各省市，还出口东南亚、港、台等地区，广大用户给予一致好评。

General

Type 4-79、4-70(72) centrifugal fans are designed and developed by our engineering technology center with the absorption and improvement of the advanced technology from Mitsuya Fan Manufacturing Co., Japan. The products is listed into the national design develop project. The performance of this range is better than the traditional type 4-79、4-72 centrifugal fans. The noise is lower 5~8dB(A) than traditional fans, compact structure and better efficiency and A-weighted sound level than the standard A drawn by Machinery Industrial Ministry. Type 4-70 centrifugal fan is divided into fifteen sizes with air volume ranging from 1,100 to 438,000m³/h and air pressure from 230 to 3,320Pa. The user can be selected the optimized fan size as per the different performance data. Because of the high efficiency, low noise and reliable operation of the fan, there are good markets for them in China including Hong Kong and Taiwan, also in South and East Asia, and awarded by all of the users.

(一)、4-79、4-70(72)型离心风机用途和使用条件

应用场所：广泛应用于各类大中型工厂和高级民用建筑、大型广场、馆、所输出气体的室内换气通风。

输送气体种类：空气内不含易燃易爆、腐蚀性的气体。

气体内的杂质：气体内不许有粘性物质，所含的尘土及硬质颗粒不大于150mg/m³。

如由于使用场合带有腐蚀性气体，温度超过80℃，或空气中含一定尘量的气体，则可以根据用途不同，选择不同材料制作成防爆；防腐、耐高温型风机，以满足广大用户的需要。

Type 4-79、4-70(72) Fans Application & Operating Conditions

Place of application: 4-70 centrifugal fans may be applied widely to the ventilation or air-exchange of large and middle-scale enterprises and advanced buildings, hotels and so on.

Kind of conveying gases: The conveying gas without containing combustible, explosive gases.

Impurity: Stickiness mater isn't permissible, dust and hard particles is not more than 150mg/m³.

Special construction: If the conveying gas is explosive, corrosive, dusty or in high temperature (more than 80℃), special material (e. G. Glass/nylon) may be used to construct ant explosion/corrosion/wearing or high temperature 4-70 car refusal fans to meet all the user' demands.

4-79、4-70 (72) 型离心风机表示方式

4-79、4-70 (72) Centrifugal Fans Express Method

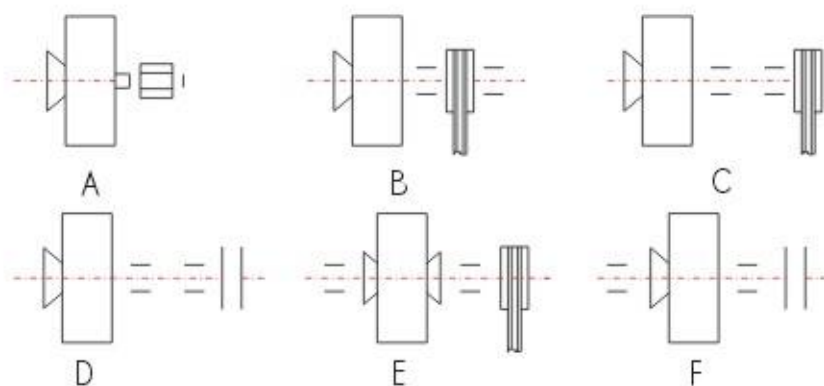


例: 4-70-№ 5A 表示单吸入结构形式, 全压系数为0.4, 比转数为70, 叶轮直径500mm, 电机直联传动。

再例: 4-79-№ 10E 表示双吸入结构形式, 全压系数为0.4, 比转数为79, 叶轮直径为1000mm, 电机皮带传动。

(三)、4-79、4-70(72)型离心风机六种传动方式示意图如下:

Six Drive Modes Described In The Following Figures.

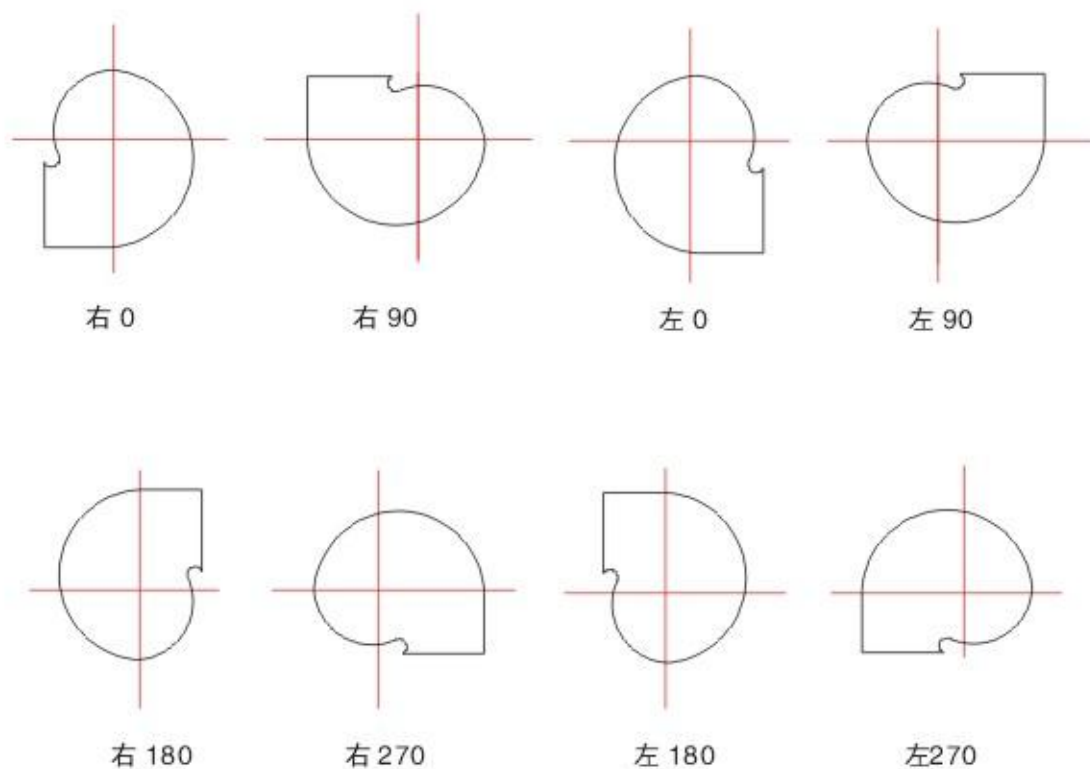


4-79、4-70(72)型离心风机型式

4-79、4-70(72) Fans Rotation Direction

风机分左旋和右旋两种形式，从电机一端正视，叶轮按顺时针方向旋转，称为右旋风机，以“右”表示；按逆时针方向旋转，称为左旋风机，以“左”表示。风机旋转方向及出口位置示意图如下：

4-79、4-70(72) centrifugal fans are divided into two types according to the rotation direction of the wheel they are the right-rotation fans(R) and left-rotation fans(L). Right-or left-fans wheels turn clockwise or anticlockwise respectively as looking towards from the motor end.



4-79 性能参数表

4-79型离心风机性能参数表

4-79Series Centrifugal Fan Performance Parameters

机号 Machine Number	转速 Speed (r/min)	全压 Total Pressure (Pa)	流量 Air-flow Rate (m ³ /h)	电机功率 Motor Power (kw)	重量 Weight (kg)
3A	2900	1190-910	2180-3480	1.5	57
	1450	300-230	110-1740	0.55	58
3.5A	2900	1620-1230	3460-5520	3.0	69
	1450	410-310	1750-2760	0.75	69
4A	2900	2120-1610	5220-8240	5.5	93
	1450	530-400	2610-4120	1.1	82
4.5A	2900	2680-2040	7440-11720	11	96
	1450	670-510	3720-5860	1.5	100
5A	2900	3320-2520	10200-16100	15	125
	1450	830-630	5100-8050	2.2	125
6A	1450	1200-910	8820-13920	5.5	160
	960	530-410	5840-9220	1.5	137

机 号 Machine Number	转 数 Speed (r/min)	全 压 Total Pressure (Pa)	流 量 Air-flow Rate (m ³ /h)	电机功率 Motor Power (kw)	三角胶带V-belt			风机轮 Driven Pulley	电机轮 Driving pulley	电机导轨 Chute-rail	重量 Weight (kg)
					型号 Type	根数 Qty	长度 Length				
7C	1800	2510-1910	17400-27600	4P-22	C	4	3658	54-C,-280	48-C,-350	SHT-2	534
	1600	1980-1510	15450-24500	4P-15	B	4	3353	54-B,-280	42-B,-310	SHT-2	513
	1250	1210-920	12120-19160	4P7.5	B	4	3353	54-B,-280	38-B,-240	SHT-1	458
	1120	970-740	10830-17200	4P-5.5	B	4	3353	54-B,-280	38-B,-215	SHT-1	433
	1000	770-590	9660-15300	4P-4	B	4	3175	54-B,-280	28-B,-195	SHT-1	428
	900	620-480	8690-13800	4P-3	A	2	3175	54-A,-280	28-A,-175	SHT-1	424
	800	490-380	7730-12240	4P-2.2	A	2	3175	54-A,-280	28-A,-155	SHT-1	417
	710	390-300	6850-10870	4P-1.5	A	2	3175	54-A,-280	28-A,-135	SHT-1	412

4-79型离心风机性能参数表

4-79Series Centrifugal Fan Performance Parameters

机号 Machine Number	转速 Speed (r/min)	全压 Total Pressure (Pa)	流量 Air-flow Rate (m ³ /h)	电机功率 Motor Power (kW)	三角胶带V-belt			风机轮 Driven Pulley	电机轮 Driving pulley	电机导轨 Chute-rail	重量 Weight (kg)
					型号 Type	根数 Qty	长度 Length				
8C	1600	2500-1910	24000-38100	4P-30	C	4	3658	54-C,-280	55-C,-280	SHT-3	627
	1270	1580-1200	19100-30200	4P-15	B	4	3658	54-B,-280	42-B,-245	SHT-2	560
	1120	1230-940	16800-26700	4P-11	B	4	3658	54-B,-280	42-B,-215	SHT-2	518
	1000	980-750	15000-23800	4P-7.5	B	4	3556	54-B,-280	38-B,-195	SHT-1	505
	900	790-610	13500-21400	4P-5.5	B	4	3556	54-B,-280	38-B,-175	SHT-1	480
	800	625-480	12000-19050	4P-4	B	4	3556	54-B,-280	28-B,-155	SHT-1	475
	710	480-380	10660-16900	4P-3	A	2	3556	54-A,-280	28-A,-135	SHT-1	471
	630	390-300	9460-15000	6P-2.2	A	2	3556	54-A,-280	28-A,-185	SHT-1	470
10C(E)	1300	2660-1810	38500-63500	4P-55	D	5	4572	65-D,-380	65-D,-340	SHT-4	1104
	1170	2160-1470	34600-57100	4P-37	D	5	4572	65-D,-380	65-D,-305	SHT-3	1090
	1000	1570-1070	29600-48800	4P-22	C	4	4521	65-C,-380	48-C,-260	SHT-2	1000
	940	1390-950	27850-45900	4P-18.5	B	4	4521	65-B,-380	48-B,-245	SHT-2	964
	830	1080-740	24550-40500	4P-15	B	4	4521	65-B,-380	42-B,-215	SHT-2	943
	740	860-590	21900-36100	4P-11	B	4	4521	65-B,-380	42-B,-195	SHT-2	901
	660	680-470	19500-32200	6P-7.5	B	4	4521	65-B,-380	42-B,-260	SHT-2	904
	580	530-360	17160-28300	6P-5.5	B	4	4521	65-B,-380	38-B,-230	SHT-1	893
10C(E)	520	420-290	15400-25400	6P-4	B	4	4521	65-B,-380	38-B,-205	SHT-1	883
	1040	2440-1670	53300-87800	4P-75	D	5	4572	65-D,-380	75-D,-270	SHT-4	1629
	941	1990-1360	48200-79300	4P-55	D	5	4572	65-D,-380	65-D,-245	SHT-4	1486
	830	1560-1060	42500-70100	6P-37	D	5	4572	65-D,-380	65-D,-330	SHT-4	1452
	740	1240-840	37800-62400	6P-22	C	4	4572	65-C,-380	55-C,-290	SHT-3	1422
	660	980-670	33800-55700	6P-18.5	C	4	4572	65-C,-380	55-C,-260	SHT-3	1349
	580	770-520	29700-48900	6P-11	B	4	4521	65-B,-380	42-B,-230	SHT-2	1321
	520	615-410	26650-43900	6P-7.5	B	4	4521	65-B,-380	42-B,-205	SHT-1	1286
10C(E)	470	500-340	24100-39700	6P-5.5	B	4	4521	65-B,-380	38-B,-185	SHT-1	1276
	420	395-270	21500-35450	6P-4	B	4	4521	65-B,-380	38-B,-165	SHT-1	1265

4-79型离心风机性能参数表

4-79Series Centrifugal Fan Performance Parameters

机号 Machine Number	转速 Speed (r/min)	全压 Total Pressure (Pa)	流量 Air-flow Rate (m³/h)	电机功率 Motor Power (kw)	三角胶带V-belt			风机轮 Driven Pulley	电机轮 Driving pulley	电机导轨 Chute-rail	重量 Weight (kg)
					型号 Type	根数 Qty	长度 Length				
14E	830	2130-1450	67400-111000	6P-75	D	5	6096	90-D ₂ -480	80-D ₂ -410	SHT-5	1629
	740	1600-1150	60100-98900	6P-55	D	5	5588	90-D ₂ -480	75-D ₂ -375	SHT-4	1486
	680	1430-970	55300-90900	6P-37	D	5	5588	90-D ₂ -480	65-D ₂ -340	SHT-4	1452
	580	1040-700	47100-77500	6P-22	C	4	5588	90-C ₂ -480	55-C ₂ -300	SHT-3	1422
	520	830-560	42200-69500	6P-18.5	C	4	5334	90-C ₂ -480	48-C ₂ -265	SHT-3	1349
	460	650-440	37300-61500	6P-15	B	4	5334	90-B ₂ -480	48-B ₂ -236	SHT-2	1321
	420	540-370	34050-56200	6P-11	B	4	5334	90-B ₂ -480	42-B ₂ -212	SHT-2	1286
	370	420-280	30000-49400	6P-7.5	B	4	5334	90-B ₂ -480	42-B ₂ -190	SHT-2	1276
	330	330-230	26800-44100	6P-5.5	B	4	5334	90-B ₂ -480	42-B ₂ -170	SHT-1	1265
16E	740	2220-1510	89700-147800	6P-90	D	5	6858	90-D ₂ -590	80-D ₂ -455	SHT-5	2987
	660	1760-1200	80100-131900	6P-75	D	5	6858	90-D ₂ -590	80-D ₂ -410	SHT-5	2725
	580	1360-920	70300-115900	6P-55	D	5	6858	90-D ₂ -590	75-D ₂ -355	SHT-4	2662
	510	1050-710	61700-101900	6P-37	D	5	6350	90-D ₂ -590	65-D ₂ -315	SHT-4	2607
	470	890-610	56900-94000	6P-30	C	4	6350	90-C ₂ -590	60-C ₂ -300	SHT-3	2474
	420	710-490	50800-84000	6P-18.5	C	4	6350	90-C ₂ -590	35-C ₂ -265	SHT-3	2422
	370	550-380	44800-74100	6P-15	B	4	6350	90-B ₂ -590	48-B ₂ -236	SHT-2	2358
	330	440-300	40000-66100	6P-11	B	4	6096	90-B ₂ -590	42-B ₂ -200	SHT-2	2340
	290	340-230	35100-58000	6P-7.5	B	4	6096	90-B ₂ -590	42-B ₂ -236	SHT-2	2320
18E	660	2230-1520	114000-187900	6P-110	D	7	7112	100-D ₂ -640	80-D ₂ -440	SHT-5	4244
	580	1720-1170	100200-165100	8P-75	D	5	7112	100-D ₂ -640	80-D ₂ -510	SHT-5	4147
	520	1390-950	89900-148100	8P-55	D	5	7112	100-D ₂ -640	80-D ₂ -475	SHT-5	4061
	470	1130-770	81200-133800	8P-45	D	5	6858	100-D ₂ -640	75-D ₂ -410	SHT-4	3853
	420	900-610	72500-119500	8P-30	C	4	6858	100-C ₂ -640	65-C ₂ -375	SHT-4	3773
	370	700-470	63800-105400	8P-22	C	4	6858	100-C ₂ -640	60-C ₂ -330	SHT-3	3673
	330	560-370	56900-94000	8P-15	C	4	6858	100-C ₂ -640	55-C ₂ -300	SHT-3	3644
	290	430-290	50400-82600	8P-11	B	4	6350	100-B ₂ -640	48-B ₂ -265	SHT-2	3613
	260	350-230	44800-74100	8P-7.5	B	4	6350	100-B ₂ -640	42-B ₂ -236	SHT-2	3613
20E	580	2120-1440	137500-226500	8P-132	D	7	7620	100-D ₂ -740	90-D ₂ -590	SHT-6	4737
	520	1710-1160	123400-203000	8P-90	D	7	7620	100-D ₂ -740	80-D ₂ -530	SHT-5	4629
	470	1400-950	111000-183500	8P-75	D	5	7112	100-D ₂ -740	80-D ₂ -475	SHT-5	4534
	420	1110-760	99600-163700	8P-55	D	5	7112	100-D ₂ -740	80-D ₂ -425	SHT-5	4301
	370	860-590	87800-144100	8P-37	D	5	7112	100-D ₂ -740	75-D ₂ -375	SHT-4	4211
	330	690-470	78300-128600	8P-30	C	4	6858	100-C ₂ -740	65-C ₂ -330	SHT-3	4100
	290	530-360	68800-113000	8P-18.5	C	4	6858	100-C ₂ -740	60-C ₂ -300	SHT-3	4068
	260	430-290	61700-101400	8P-15	B	4	6858	100-B ₂ -740	55-B ₂ -265	SHT-3	4033

4-79型离心风机性能参数表

4-79Series Centrifugal Fan Performance Parameters

机号 Machine Number	转数 Speed (r/min)	全压 Total Pressure (Pa)	流量 Air-flow Rate (m³/h)	电机功率 Motor Power (kW)	三角胶带V-belt			风机轮 Driven Pulley	电机轮 Driving pulley	电机导轨 Chute-rail	重量 Weight (kg)
					型号 Type	根数 Qty	长度 Length				
4.2×79 8E	1270	1569-931	23760-52960	4P-30	C	4	3658	48-C,-380	55-C,-250	SHT-2	854
	1120	1225-725	24080-46720	4P-22	C	4	4572	48-C,-380	48-C,-295	SHT-2	834
	1000	970-558	21520-41680	4P-15	B	4	4521	48-B,-380	42-B,-265	SHT-2	816
	900	784-470	19360-37600	4P-11	B	4	4521	48-B,-380	42-B,-236	SHT-2	775
	800	617-372	17200-33360	4P-11	B	4	4521	48-B,-380	42-B,-210	SHT-2	759
	710	490-294	15230-30080	6P-7.5	B	4	4521	48-B,-380	42-B,-280	SHT-1	739
	650	387-225	13520-26320	6P-5.5	B	4	4521	48-B,-380	38-B,-260	SHT-1	733
4.2×79 10E	1170	2160-1470	69200-114200	4P-75	D	5	4572	60-D,-380	75-D,-305	SHT-4	1486
	1040	1700-1170	61500-102600	4P-55	D	5	4572	60-D,-380	65-D,-270	SHT-4	1452
	940	1390-950	55700-91800	4P-37	D	5	4572	60-D,-380	60-D,-245	SHT-3	1422
	830	1080-740	19100-81000	4P-30	C	4	4572	90-C,-380	55-C,-215	SHT-3	1349
	740	860-590	43800-72200	4P-18.5	B	4	4521	60-B,-380	48-B,-195	SHT-2	1321
	660	680-470	39000-64400	6P-15	B	4	4521	60-B,-380	48-B,-260	SHT-2	1286
	580	530-360	34320-56600	6P-11	B	4	4521	60-B,-380	42-B,-230	SHT-2	1276
4.2×79 12E	940	1990-1360	96400-158600	4P-90	D	5	4572	65-D,-380	75-D,-245	SHT-4	1769
	830	1560-1060	85000-140200	6P-75	D	5	4572	65-D,-380	80-D,-330	SHT-5	1728
	740	1240-840	75800-124800	6P-55	D	5	4572	65-D,-380	75-D,-295	SHT-4	1639
	680	1060-710	69700-114800	6P-37	D	5	4572	65-D,-380	65-D,-270	SHT-4	1606
	580	770-520	59400-97800	6P-22	C	4	4572	65-C,-380	55-C,-230	SHT-3	1537
	520	615-410	53300-87800	6P-15	B	4	4572	65-C,-380	48-C,-205	SHT-2	1531
	470	500-340	48200-97400	6P-11	B	4	4521	65-B,-380	42-B,-185	SHT-2	1519
4.2×79 14E	740	1690-1150	120200-197800	6P-90	D	7	5588	90-D,-480	80-D,-375	SHT-5	3240
	660	1430-970	110600-181800	6P-75	D	5	5588	90-D,-480	80-D,-340	SHT-5	3167
	580	1040-700	94200-155000	6P-55	D	5	5588	90-D,-480	75-D,-300	SHT-4	3101
	520	830-560	84400-139000	6P-30	C	4	5334	90-C,-480	60-C,-265	SHT-4	2942
	460	650-440	74600-123000	6P-22	C	4	5334	90-C,-480	55-C,-236	SHT-3	2881
	420	540-370	68100-112400	6P-18.5	C	4	5334	90-C,-480	48-C,-212	SHT-3	2805
	370	420-280	60000-98800	6P-15	B	4	5334	90-B,-480	48-B,-190	SHT-2	2782