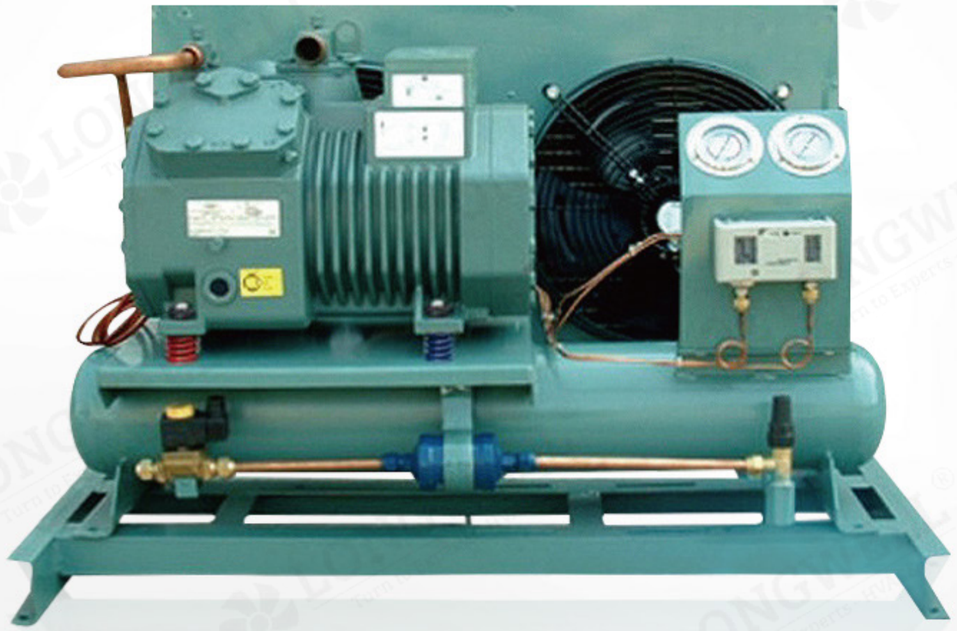
Refrigeration Units

Professional HVAC Fan &Motors Manufacturer



Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

Type Code

Bitzer Semi-hermetic Type Wind Cooler Units

FN22 / 2HES1 D

- FNV type air cooler condenser model
- Compressor model
- Working temperature
  G- 5~-5°C; D- -15~-20°C

Bitzer Semi-hermetic Type Water Cooler Units

WN 05 / 2CES4 WM

- Water cooler condenser model
- Water cooler condenser power
- Compressor model
- WM-Middle-low temperature type
  WH-Middle-high temperature type

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Refrigeration Units

Product Characteristic

Compressor, sub-semi-closed and closed are the international and domestic famous brand product with high efficiency, low noise, low wear and long life characteristics as the main part of the unit: our Company product good quality condenser, supporting high-quality refrigeration parts, precision design, painstakingly created by the professional and technical personnel, combined with advanced production and test equipment, so that the entire unit's performance is more stable, reliable, efficient and energy saving.

System components:

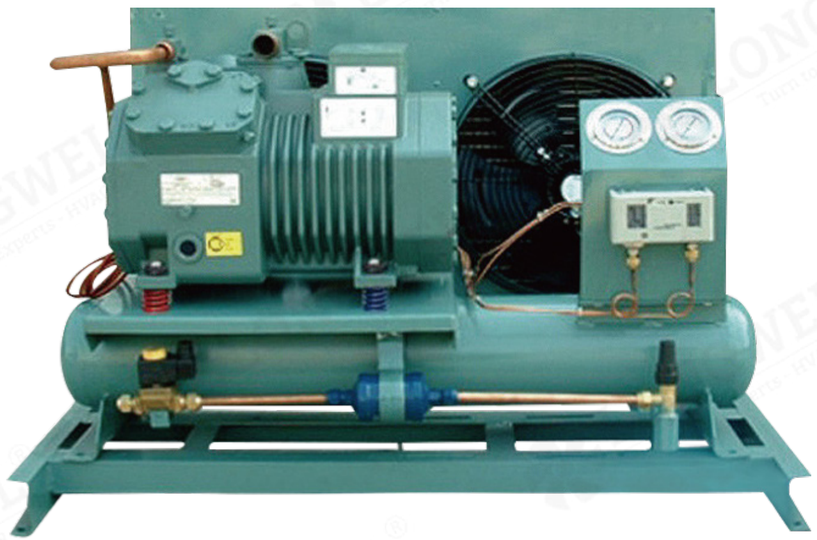
- Standard with the unit are enuinned with hinh and low nressure control switch when oneratinn conditions eyreed the desion condition-sor equipment failure, high and low pressure control switch action to protect the compressor and the whole system's security.
- Compressor built-in thermal protection device. When the compressor is running under normal circumstances, or motor current load exceeds the setting value of the built-in protection. It willautomatically cut off the power to prevent motor coil from high temperature result motor burned.
- Safety valve (fusible plug) to ensure the normal operation of the equipment in a safe pressure. L overpressure, the automatic pressure relief valve, to prevent serious production safety accidents.

Application:

- The products are widely used: refrigerated, central air conditioning, petrochemical, pharmaceutical industry, power industry, plant workshops cooling, factory production of agricultural products, cold chain logistics and other places.

Special Note:

- Water-cooled units, when the outdoor temperature is low, causing the device with water frozen to cope with the water system of theequipment (units) as insulation to prevent equipment damage due to frozen! The row within the clear device storage in the unit when not in use shall be to ensure that the units in the next time you use the normal time to run.
- Unit commissioning, maintenance and repair should be professionals, non-professional nonoperating, to prevent damage to equipment and serious security incidents!

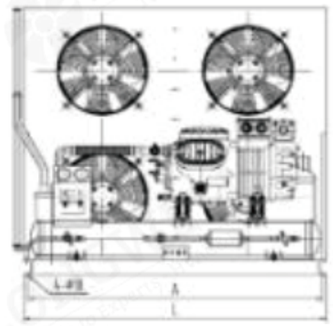


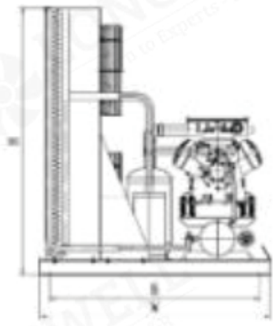
The Main Technical Parameter Of Bitzer Semi-hermetic Type Wind Cooler Units(Medium and low temperature type)

Model	Compressor Model	Ref.Capacity	Power	In And Out Of The Tube Diameter		Boundary Dimension			Installation Dimension	
		R22(w)	(kw)	Air Suction	Outlet Pipe	A	B	C	a	b
FN12/2HES1D	2HES-1	1880	1.37	Φ16mm	Φ10mm	620	650	510	580	350
FN18/2EES2D	2EES-2	3150	2.22	Φ22mm	Φ10mm	620	650	560	580	350
FN28/2CES3D	2CES-3	4450	3.03	Φ22mm	Φ12mm	980	680	520	940	380
FN33/4EES4D	4EES-4	6160	4.37	Φ22mm	Φ12mm	980	750	670	940	410
FN42/4DES5D	4DES-5	7280	5	Φ28mm	Φ12mm	1080	750	770	1040	410
FN60/4VES6D	4VES-6	8390	6.2	Φ28mm	Φ12mm	1080	750	870	1040	410
FN70/4TES9D	4TES-9	11880	7.38	Φ35mm	Φ16mm	1080	710	940	1040	660
FN80/4PES10D	4PES-10	13800	8.67	Φ35mm	Φ16mm	1200	710	1210	1160	660
FN100/4JE15D	4JE-15	16150	10	Φ35mm	Φ16mm	1200	750	1040	1160	700
FN120/4HE18D	4HE-18	21100	13.9	Φ42mm	Φ22mm	1200	850	1240	1160	800
FN140/4GE23D	4GE-23	24450	16.4	Φ54mm	Φ22mm	1350	850	1240	1310	800
FN160/6JE25D	6JE-25	27350	17.2	Φ54mm	Φ22mm	1350	900	1140	1310	840
FN180/6HE25D	6HE-25	31700	20.7	Φ54mm	Φ22mm	1450	900	1240	1410	840
FN240/6GE30D	6GE-30	36700	24.3	Φ54mm	Φ22mm	1600	900	1440	1560	840
FNV300/6FE40D	6FE-40	44100	29.6	Φ54mm	Φ28mm	1050	600	910	800	550

Note:
1. The parameters are based on the operating condition of evaporating temperature -20℃ and condensing temperature 50℃, using R22 refrigerant. FNV type is a split structure. 2. When the evaporating temperature is low, CIC liquid injection and additional cooling are required.

The Main Technical Parameter Of Bitzer Semi-hermetic Type Wind Cooler Units(Medium to high temperature type)





Model	Compressor Model	Ref.Capacity	Power	In And Out Of The Tube Diameter		Boundary Dimension			Installation Dimension	
		R22(w)	(kw)	Air Suction	Outlet Pipe	A	B	C	a	b
FN18/2HES2G	2HES-2	3380	1.94	Φ16mm	Φ10mm	620	650	560	580	350
FN28/2DES3G	2DES-3	5670	3.34	Φ22mm	Φ12mm	980	680	520	940	380
FN43/2CES-4G	2CES-4	8350	4.92	Φ22mm	Φ12mm	1080	680	720	1020	380
FN50/4FES5G	4FES-5	9640	5.21	Φ22mm	Φ12mm	1080	750	670	1020	410
FN60/4EES6G	4EES-6	11850	6.23	Φ28mm	Φ12mm	1080	750	770	1020	410
FN70/4DES7G	4DES-7	14480	7.72	Φ28mm	Φ16mm	1080	750	940	1020	410
FN80/4CES9G	4CES-9	17500	7.98	Φ28mm	Φ16mm	1200	710	1040	1160	660
FN80/4VES10G	4VES-10	19190	7.91	Φ28mm	Φ16mm	1200	710	1040	1160	660
FN100/4TES12G	4TES-12	23150	9.85	Φ35mm	Φ16mm	1200	710	1040	1160	660
FN140/4PES15G	4PES-15	27700	11.2	Φ35mm	Φ22mm	1350	750	1240	1310	700
FN160/4NES20G	4NES-20	32150	14.1	Φ42mm	Φ22mm	1350	800	1140	1310	760
FNV220/4HE25G	4HE-25	42250	18.1	Φ54mm	Φ22mm	1150	570	860	800	530
FNV280/4GE30G	4GE-30	48500	21.1	Φ54mm	Φ22mm	1150	570	852	800	530
FNV310/6JE33G	6JE-33	54700	23.3	Φ54mm	Φ28mm	1150	570	852	800	530
FNV310/6HE35G	6HE-35	63400	26.7	Φ54mm	Φ28mm	1050	600	910	800	550
FNV380/6GE40G	6GE-40	72800	31	Φ54mm	Φ28mm	1050	600	910	800	550
FNV410/6FE50G	6FE-50	86300	37.9	Φ54mm	Φ35mm	1550	600	880	1000	550
FNV530/8GE60G	8GE-60	106300	47.7	Φ76mm	Φ35mm	1550	600	950	1000	550
FNV600/BFE70G	8FE-70	121200	60.5	Φ76mm	Φ35mm	1550	600	950	1000	550

Note:
Changes in size may be made as required for production and development purposes, without further notice.

The Main Technical Parameter Of Bitzer Semi-hermetic Type Water Cooler Units(*Medium to high temperature type*)

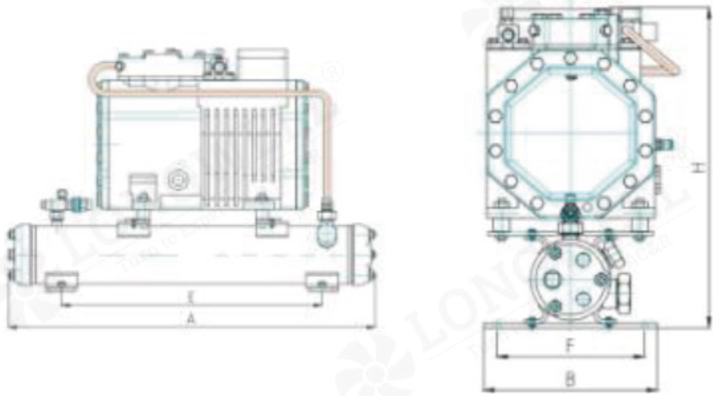


Model	Compressor Model	Ref.Capacity	Power	Air Suction	Outlet Pipe	Water Pipe	Supplying Water
		R22(w)	(kw)	(mm)	(mm)	(G)	(m^3/h)
WN4/2DES3WH	2DES3	5590	2	Φ16	Φ12	3/2”	2
WN5/2CES4WH	2CES4	9890	3.31	Φ22	Φ16	3/2”	2.5
WH8/4FES5WH	4FES5	11230	3.66	Φ22	Φ16	3/2”	3.3
WH8/4EES6WH	4EES6	13860	4.56	Φ22	Φ16	3/2”	4
WH10/4DES7WH	4DES7	16830	5.4	Φ28	Φ19	3/2”	4.8
WH10/4CES9WH	4CES9	20250	6.64	Φ28	Φ19	2”	6.5
WH15/4VES10WH	4VES10	22250	6.61	Φ28	Φ19	2”	6.9
WH15/4TES12WH	4TES12	26800	8.09	Φ35	Φ19	2”	8
WH15/4PES15WH	4PES15	31950	9.35	Φ42	Φ22	2”	9.2
WH20/4NES20WH	4NES20	37000	11.34	Φ42	Φ22	2”	12
WH25/4JE22WH	4JE22	40900	12.25	Φ42	Φ22	2”	13.5
WH30/4HE25WH	4HE25	47400	14.2	Φ54	Φ22	5/2”	14
WH35/4GE30WH	4GE30	54400	16.76	Φ54	Φ22	5/2”	16.5
WH4/6HE35WH	6HE35	71200	21.3	Φ54	Φ28	5/2”	21.8
WH45/6GE40WH	6GE40	81600	25.2	Φ54	Φ28	5/2”	24.5
WH60/6FE50WH	6FE50	96500	31.4	Φ54	Φ28	3”	29

Note:
1. The parameters are based on the operating condition of evaporator temperature -5℃ and condensing temperature 40℃ using R22 refrigerant.
2. Suitable for 3P 380V 50HZ power supply.

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Installation Dimension Drawing



Model	Compressor Model	Boundary Dinension			Installation Dimension		Installation Aperture
		A	B	H	E	F	(mm)
WN4/2DES3WH	2DES3	960	350	720	650	300	Φ18
WN5/2CES4WH	2CES4	960	350	720	650	300	Φ18
WH8/4FES5WH	4FES5	1030	350	760	750	300	Φ18
WH8/4EES6WH	4EES6	1030	350	760	750	300	Φ18
WH10/4DES7WH	4DES7	1100	350	800	750	300	Φ18
WH10/4CES9WH	4CES9	1100	350	800	750	300	Φ18
WH15/4VES10WH	4VES10	1300	400	850	950	350	Φ18
WH15/4TES12WH	4TES12	1300	400	850	950	350	Φ18
WH15/4PES15WH	4PES15	1300	400	850	950	350	Φ18
WH20/4NES20WH	4NES20	1300	400	850	950	350	Φ18
WH25/4JE22WH	4JE22	1300	400	950	950	350	Φ18
WH30/4HE25WH	4HE25	1630	400	950	1020	350	Φ18
WH35/4GE30WH	4GE30	1630	400	950	1020	350	Φ18
WH40/6HE35WH	6HE35	1630	400	950	1020	350	Φ18
WH45/6GE40WH	6GE40	1630	400	1000	1020	350	Φ18
WH60/6FE50WH	6FE50	1630	400	1000	1020	350	Φ18

Note:
Changes in size may be made as required for production and development purposes, without further notice.

The Main Technical Parameter Of Bitzer Semi-hermetic Type Water Cooler Units(Medium and low temperature type)

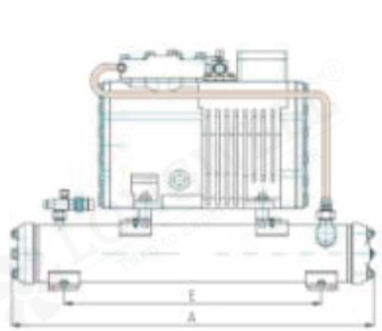


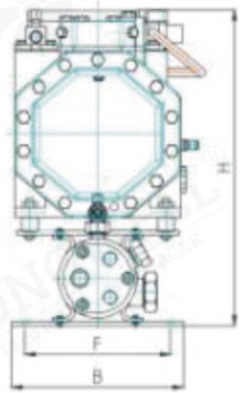
Model	Compressor Model	Ref.Capacity	Power	Air Suction	Outlet Pipe	Water Pipe	Supplying Water
		R22(w)	(kw)	(mm)	(mm)	(G)	(m³/h)
WN04/2CES3WM	2CES3	5500	2.6	Φ22	Φ12	1-1/2	1.5
WN05/4EES4WM	4EES4	7550	3.7	Φ22	Φ16	1-1/2	2.5
WN08/4DES5WM	4DES5	8830	4.4	Φ28	Φ16	1-1/2	3
WN08/4CES6WM	4CES6	10230	5.2	Φ28	Φ16	1-1/2	3.5
WN10/4TES9WM	4TES9	14150	6.4	Φ35	Φ22	1-1/2	4.5
WN10/4PES10WM	4PES10	16390	7.4	Φ35	Φ22	2	5.5
WN15/4NES14WM	4NES14	19160	8.7	Φ35	Φ22	2	6
WN20/4HE18WM	4HE18	24450	11.2	Φ42	Φ25	2	7.8
WN25/4GE23WM	4GE23	28200	13.1	Φ54	Φ28	2	9
WN30/6HE25WM	6HE25	36700	16.8	Φ54	Φ28	2	12
WN35/6GE30WM	6GE30	42300	19.6	Φ54	Φ28	2-1/2	14.5
WN45/6FE40WM	6FE40	50500	24.3	Φ54	Φ28	2-1/2	16.8

Note:
1. The parameters are based on the operating condition of evaporator temperature -5℃ and condensing temperature 40℃ using R22 refrigerant.
2. Suitable for 3P 380V 50HZ power supply.

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Installation Dimension Drawing





Model	Compressor Model	Boundary Dinension			Installation Dimension		Installation Aperture
		A	B	H	E	F	(mm)
WN04/2CES3WM	2CES3	960	350	720	610	300	Φ18
WN05/4EES4WM	4EES4	960	350	720	610	300	Φ18
WN08/4DES5WM	4DES5	1030	350	760	750	300	Φ18
WN08/4CES6WM	4CES6	1030	350	760	750	300	Φ18
WN10/4TES9WM	4TES9	1100	350	800	750	300	Φ18
WN10/4PES10WM	4PES10	1100	350	800	750	300	Φ18
WN15/4NES14WM	4NES14	1300	400	850	950	350	Φ18
WN20/4HE18WM	4HE18	1300	400	850	950	350	Φ18
WN25/4GE23WM	4GE23	1300	400	950	950	350	Φ18
WN30/5HE25WM	6HE25	1630	400	950	1020	350	Φ18
WN35/6GE30WM	6GE30	1630	400	950	1020	350	Φ18
WN45/6FE40WM	6FE40	1630	400	1000	1020	350	Φ18

Note:
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