

# HEAT PUMP ENERGY

TODAY'S SAVINGS, TOMORROW'S BENEFIT





Founded in 2009, V-TAC was developed and designed to not only bring sustainable LED lighting solutions to your homes but to also keep adding value to energy-efficient solutions covering more than 70 countries throughout Europe, Asia Pacific, Africa, Middle East, and the USA. As a result of our relentless pursuit of excellence, we have been listed in the London Stock Exchange Group's 1000 Companies to Inspire Europe. We believe in offering high quality LED solutions while keeping innovation at the core of everything we do. Boasting a portfolio of over 2500 lighting products, V-TAC has utilized its brand value and R&D efforts into innovating beyond lighting solutions into categories like smart home solutions and wireless speakers. The six new product branches under the V- TAC brand has enabled us to successfully expand our portfolio to more than 4200 products. We are committed to our business & are our constantly evolving to better serve our customers.

As a logical next step after our introduction of Solar Panels we have taken our next step in our sustainable development by introducing a full range of Air-to-water (ATW) Heat Pumps.

V-Tac believes in the transition which started with the Paris Agreement in 2015 which aims to achieve zero emissions by the second half of the century;

- Most of the EU will be carbon neutral by 2050
- 129 countries around the world are involved in carbon neutrality, this is a global energy revolution
- The core path of carbon neutrality: reducing fossil energy, developing renewable energy, improving energy efficiency

Heat pump heating has produced irreversible advantages over the traditional gas boiler heating method. Therefore V-TAC has developed a range of Heat Pumps which covers most of the demands in your local markets. "Today's savings, tomorrow's benefit".



## TABLE OF CONTENT

HOW DO HEAT PUMPS WORK?	03
WHY ARE HEAT PUMPS SO IMPORTANT?	05
HEAT PUMP TECHNOLOGY AND TERMS	06
V-TAC HEAT PUMPS	07
HEAT PUMP FACTS	08





Heat pumps are a proven technology that have been used for decades to efficiently provide heating, cooling, and in some cases, hot water to buildings. In fact, it is likely that you interact with heat pump technology on a daily basis: refrigerators and air conditioners operate using the same principles and technology.

## **HOW DO HEAT PUMPS ACTUALLY WORK?**



### **1. CAPTURE**

The fan passes ambient air over extremely cold liquid refrigerant. The refrigerant captures the heat from the ambient air and becomes a warm vapour.

### 2. COMPRESS

The warm refrigerant vapour passes through a compressor which produces hot refrigerant and usable heat.

### **3. EXCHANGE**

The heat in the hot refrigerant is then transferred to the heating and hot water cylinder through a heat exchanger.

### 4. EXPAND

Once the heat has been transferred to the house, the refrigerant passes through an expansion valve which reduces its temperature, making it really cold again and enabling it to capture heat from the ambient air, continuing the cycle.



## **⑧** HEAT PUMP ENERGY

A heat pump is an electrically driven device that extracts heat from a low temperature place (a source), and delivers it to a higher temperature place (a sink).

Heat naturally flows from places with higher temperature to locations with lower temperatures (e.g., in the winter, heat from inside the building is lost to the outside). A heat pump uses additional electrical energy to counter the natural flow of heat, and pump the energy available in a colder place to a warmer one.

The heat pump draws heat from the outside air during the heating season and rejects heat outside during the summer cooling season. It may be surprising to know that even when outdoor temperatures are cold, a good deal of energy is still available that can be extracted and delivered to the building. For example, the heat content of air at -18°C equates to 85% of the heat contained at 21°C. This allows the heat pump to provide a good deal of heating, even during colder weather.

Heat pumps are a highly efficient, eco-friendly way of providing heating and hot water, by taking "free energy" from the air or via a refrigerant cycle they generate heat without releasing any carbon emissions.



The COP measures how efficient a heat pump performs by comparing the amount of electricity it uses to the amount of heat it is able to produce. For example, when a heat pump uses 3kW of energy from the atmosphere, it will produce 4kW of heat and therefore have a COP of 4. The higher the COP, the more energy is generated per unit of electricity and the more efficient is the heat pump.





## WHY HEAT PUMP ENERGY IS IMPORTANT?

There's a reason why so many homeowners and businesses are turning to air to water(ATW). The benefits are undeniable, and not just for individuals, but for the planet as a whole. Here are just a few of the many reasons that support the importance of Heat Pump Energy

## IT'S GOOD FOR THE ENVIRONMENT

The difference between Heat Pump Energy and conventional electricity is that Heat Pump Energy does not rely on the use of fossil fuels, does not pollute air or water, making it the preferable option for many. Heat Pump Energy works with the earth's natural resources, whereas conventional electricity depletes or harms them.

## IT'S A RELIABLE, COST-EFFECTIVE ENERGY SOURCE

Air source HP transfer the heat from the air (it can also use solar and PV). For that reason, Heat Pump Energy is highly reliable. And unlike fossil fuels which are expensive to mine and utilize, it doesn't cost anything to receive sunlight. A one-time installation of solar equipment is all that's needed to reap the benefits

## IT SAVES YOU MONEY IN THE LONG RUN

Though the cost of installing air source HP system has decreased in recent years, some may still find the initial investment in Heat Pump Energy to be intimidating. However, the key is remembering that an installation is a one-time event, whereas paying for conventional electricity is a frequent, ongoing, and expensive obligation, especially as electric rates continue to rise. Making the investment in running your home or building off of Heat Pump Energy will save you considerably more money over time.

## IT PROMOTES ENERGY INDEPENDENCE

Energy independence means not having to rely on the power grid. Not only does this method make you vulnerable to price spikes, but it's also prone to outages. Solar source is usually the auxiliary source, not the main power input. With no other means of powering your home, you could run into a variety of issues in the event of bad weather or damage to power lines. Using Heat Pump Energy, especially when paired with a backup battery system, allows you to not be tied to unreliable power grids when you need energy most.





## **HEAT PUMP TECHNOLOGY & TERMS**

A variety of efficiency metrics are used in brochures, which can make understanding system performance somewhat confusing for a first time buyer or installer. Below is a breakdown of some commonly used efficiency terms:

Steady-State Metrics: These measures describe heat pump efficiency in a 'steady-state,' i.e., without real-life fluctuations in season and temperature. As such, their value can change significantly as source and sink temperatures, and other operational parameters, change.

### Steady state metrics include:

Coefficient of Performance (COP): The COP is a ratio between the rate at which the heat pump transfers thermal energy (in kW), and the amount of electrical power required to do the pumping (in kW). For example, if a heat pump used 1kW of electrical energy to transfer 4 kW of heat, the COP would be COP 4. V-TAC heat pumps do have a COP up to 5 for the 10kW monobloc version.

Energy Efficiency Ratio (EER): The EER is similar to the COP, and describes the steady-state cooling efficiency of a heat pump. It is determined by dividing the cooling capacity of the heat pump in Btu/h by the electrical energy input in Watts (W) at a specific temperature. EER is strictly associated with describing the steady-state cooling efficiency, unlike COP which can be used to express the efficiency of a heat pump in heating as well as cooling.

Seasonal Performance Metrics: These measures are designed to give a better estimate of performance over a heating or cooling season, by incorporating "real life" variations in temperatures across the season.

Seasonal Energy Efficiency Ratio (SEER): SEER measures the cooling efficiency of the heat pump over the entire cooling season. It is determined by dividing the total cooling provided over the cooling season (in Btu) by the total energy used by the heat pump during that time (in Watt-hours). The SEER is based on a climate with an average summer temperature of 28°C.

## **HEAT PUMP SYSTEM COMPONENTS**

V-TAC uses the best brands available in the market enabling the heat pumps to have the best performance during their lifetime. V-TAC guarantees a period of 5 years on all of its heat pumps.

The refrigerant is the fluid that circulates through the heat pump, alternately absorbing, transporting and releasing heat. Depending on its location, the fluid may be liquid, gaseous, or a gas/vapour mixture. The heat pumps of V-TAC use the R32 refrigerant.

- R32 creates no damage to the ozone layer
- R32 has got a low greenhouse effect coefficient
- Compared with R410A, R32 heating capacity is higher and stronger, which reduces the amount of refrigerant used







The reversing valve controls the direction of flow of the refrigerant in the heat pump and changes the heat pump from heating to cooling mode or vice versa.

A coil is a loop, or loops, of tubing where heat transfer between the source/sink and refrigerant takes place. The tubing may have fins to increase the surface area available for heat exchange.

The evaporator is a coil in which the refrigerant absorbs heat from its surroundings and boils to become a low-temperature vapour. As the refrigerant passes from the reversing value to the compressor, the accumulator collects any excess liquid that did not vaporize into a gas. Not all heat pumps, however, have an accumulator.

The compressor squeezes the molecules of the refrigerant gas together, increasing the temperature of the refrigerant. This device helps to transfer thermal energy between the source and sink.

The condenser is a coil in which the refrigerant gives off heat to its surroundings and becomes a liquid.

The expansion device lowers the pressure created by the compressor. This causes the temperature to drop, and the refrigerant becomes a low-temperature vapour/liquid mixture.



The outdoor unit is where heat is transferred to/from the outdoor air in an air-to-water heat pump. This unit generally contains a heat exchanger coil, the compressor, and the expansion valve. It looks and operates in the same manner as the outdoor portion of an air-conditioner.

Other Terms

Units of measurement for capacity, or power use:

A kW, or kilowatt, is equal to 1000 watts. This is the amount of power required by ten 100-watt light bulbs.

A ton is a measure of heat pump capacity. It is equivalent to 3.5 kW or 12.000 Btu/h.

## V-TAC HEAT PUMPS

V-Tac has created a full range of Air-to-Water heat pumps:

- Monobloc type house heat pump
- Split type house heating heat pump
- All-in-One sanitary hot water heat pump

Our monobloc and split unit range is available in kW versions covering most of the demand of the B-2-C market.



## **RANGE PORTFOLIO**

	М	onoblock ra	ange R32 +	Electric Bad	ck-up Heate	er	
Model (kW)	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW	16 kW
220V-240V - 1 phase - including electric back-up heater 3kW	Ø	Ø	Ø	Ø	Ø	Ø	Ø
380V-415V - 3 phase - including electric back-up heater 9kW					Ø	Ø	Ø
	Ś	Split unit rar	nge R32 + E	lectric Bacl	k-up Heater		
Model (kW)	4 kW	6 kW	8 kW	10 kW	12 kW	14 kW	16 kW
220V-240V - 1 phase - including electric back-up heater 3kW	Ø	Ø	Ø	Ø	Ø	Ø	Ø
380V-415V - 3 phase - including electric back-up heater 9kW					Ø	Ø	Ø
			т	he V-TAC ran	ge is having a	n extended	

complete module

period of guarantee of 5 years on the

Our all-in-one range will be available in the following versions:

200 litre	All	in one unite i	range R134A	۱.
<ul> <li>250 litre</li> </ul>	Model (kW)	200 litre	250 litre	300 litre
300 litre	220V-240V	Ø	Ø	Ø

5 YEAR WARRANTY

The V-TAC range does have a well balanced composition of the most famous and thrust worthy elements available in the industry. Some of the brands used are:

Compressor	Mitsubishi
Motor	Panasonic
Heat Exchanger	Alfa Laval

All of our monobloc's and split units do have an integrated electric back-up heater of 3kW (1 phase) or 9kW (3 phase) covering the required capacity to also function in very low ambient temperatures.







## HEAT PUMP FACTS



### **R32** refrigerant

R32 refrigerant efficiently works even in small volume compared to existing R410 refrigerant, which decreases the potential hazard of global warming. Furthermore, R32 refrigerant is easy to recvcle.



### Hybrid function

The V-TAC monobloc heat pump series are designed to replace traditional energy sources like oil & gas boilers and are developed to cooperate together with them or new sources like Solar energy.



### Low noise

The 2 levels of silent modes provide more comfort.



Holiday Mode



### Wi-Fi Standard

Through the smart Wi-Fi management, you get to create the environment you desire, from anywhere. Free download the Tuya controlled app from Google play/App Store and save energy operating your appliance through your smartphone or tablet



### A+++ Energy Class

The technological superiority of inventor heat pumps guarantees impeccable performance with the smallest functional costs. Benefit from the A+++ (35 degrees Celsius) and A++ (55 degrees Celsius) heating-warm zone) and save energy, creating the atmosphere you require.



@A7W35 for 10kW

### High efficiency even with low ambient temperatures

The heat pumps, thanks to their special design, with supply temperature up to 65 degrees Celsius for connection to heating radiators, offer cooling, heating as well as hot water production at the same time. Their smooth operation is ensured even at extreme outdoor temperatures that reach down to -25 degrees Celsius.

64D

The Holiday function is used to deviate from regular set modes and schedules



### Floor protection

Protect your home floor by activating the Floor Preheating function which slowly increases the heating temperature of the floor coils, avoiding possible floor damaging and transitioning smoothly to the heating function. The Floor Drying Up function provides an additional solution to the installer as it helps remove any residual moisture from newly installed floor coils, further protecting the installation and ensuring the optimal and effective operation of the heat pump.



### 2 Zones control

### **Control zones & Plate** Heat Exchanger

Equipped with a resilient plate heat exchanger of high thermal transfer coefficient, invertor heat pumps provide energy savings and ensure long and stellar operation. For different indoor terminal units, the leaving water temperature is different. The 2-zone control function is used to ensure different indoor terminal units working at its design tempo to enhance the comfort and to save energy.



### 3 kW electric back-up heater as standard

The Heat pump series of V-TAC have a 3kW electric back-up heater as standard for the 1-phase units and a 9kW electric back-up heater for the 3-phase units enabling the Heat Pump to operate when ambient temperature drops below the point of its capacity, the back-up heater supplies the required additional heating to have warm water and to provide high efficiency and stellar heating conditions quickly and effectively also with low ambient temperatures.



### **Ultimate Central Control**

The heat pumps are equipped with a touch wired controller for an even easier usage of your appliance, offering access to an important number of functions. The wire controlled display can be used in multiple languages and has mod-bus control, a built in Wi-Fi module which supports app-control and checks the running state of the heat pump, zone switch, operating mode and temperature.



### Auto Mode

The heat pump will prioritize DHW production or heating function according to your needs and settings.





## SOUND POWER DATA



### Sound emission from V-TAC 4 kW heat pump

The V-TAC series of mono block and split units do have 2 settings:

Regular setting; sound power as stated in the technical specifications Silent setting

## SOUND POWER & SOUND PRESSURE

The noise levels produced by an air conditioner and heat pump are often described by manufacturers using what is known as "Sound Pressure Levels" and "Sound Power Levels".

The Sound Power Level is a measure of the acoustic energy emitted from a source of noise, expressed in decibels. The Sound Pressure Level is the pressure disturbance in the atmosphere measured using predefined conditions such as the location of the equipment, the environmental conditions, and the distance of the measurement from the measurement point.

Sound Pressure is ultimately what our ears hear.

Due to the difference in these measurements, if you are using these to help you decide on your preferred ATW solution, it is important to make sure you are comparing the same measurement for an accurate comparison of these factors.

Please note all noise data we provided are Sound power level









HC:heating capacity, PI:power input, COP :effieciency



## **⊗≣** HEAT PUMP ENERGY









V-TAC Model name

### **HEAT PUMP ENERGY** &≣

14 kW 16 kW 12 kW 14 kW

16 kW

S URE S Ш SERI -4 ш LL. MONOBLOC U **NNH** U Ш

Electrical back-up Heater	specs		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power supply		V/Ph/H			2	20-240 / 1	/ 50			;	380-415 / 3	
	Capacity	kW	3.96	6.01	79	10.20	1210	14.50	15.90	12.10	14.50	15.90
Heating 1	Potod input	L/M	0.75	117	1.75	2.04	2.57	3.05	3.45	2.57	3.05	3.45
		KU	5.05	5 17	4.61	5.01	4.70	4.75	4.61	4.70	4.75	4.61
	COP	1.34/	0.20	5.15	4.01	3.01	4.70	4.75	4.01	12.10	4.75	15.00
Heating 2	Сарасну	KVV	4.10	0.04	8.30	0.70	12.10	14.50	15.90	7.70	7.00	10.90
	Rated input	KVV	1.11	1.03	2.61	2.79	3.30	3.89	4.03	3.30	3.69	4.03
	COP		3.77	3.70	3.18	3.65	3.60	3.72	3.43	3.60	3.72	3.43
	Capacity	kW	4.14	6.09	7.60	9.60	12.10	13.80	15.80	12.10	13.80	15.80
Heating 3	Rated input	kW	1.46	2.13	2.96	3.22	4.11	4.42	6.12	4.11	4.42	6.12
	COP		2.84	2.86	2.57	2.85	2.94	3.12	2.58	2.94	3.12	2.58
	Capacity	kW	3.98	6.18	8.1	10.1	11.90	13.50	15.7	11.90	13.50	15.7
Cooling 4	Rated input	kW	0.77	1.26	1.96	2.44	2.93	3.25	4.02	2.93	3.25	4.02
	EER		5.19	4.91	4.13	4.14	4.06	4.15	3.90	4.06	4.15	3.90
	Capacity	kW	4.29	6.27	7.50	8.70	10.30	12.70	15.90	10.30	12.70	15.90
Cooling 5	Rated input	kW	1.32	1.99	2.57	2.94	4.09	4.79	6.09	4.09	4.79	6.09
	EER		3.24	3.14	2.92	2.96	2.52	2.65	2.61	2.52	2.65	2.61
Seasonal space heating	LWT at 35°C		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
energy efficiency class	LWT at 55°C		A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
	LWT at 35°C		4.96	5.05	4.56	5.02	4.65	4.65	4.55	4.65	4.65	4.55
SCOP	LWT at 55°C		3.47	3.52	3.32	3.51	3.37	3.45	3.36	3.37	3.45	3.36
	IWT at 7°C		5.15	5.27	4.53	4.61	4.58	4.76	4.5	4.58	4.76	4.5
SEER	LWT at 18°C		8.56	8.77	6.51	6.55	6.53	6.72	6.5	6.53	672	6.5
			18	18	21	25	25	30	30	25	30	30
MOP(Maximum overcurren	it protection)	A	10	14	16	10	23	26	07	23	26	00
MCA(minimum circuit amp	s)	A	12	14	70	77	23	20	2/	23	20	2/
Water pressure drop		kPa	25	25	29	37	30	36	30	30	36	36
Refrigerant system pressure	e (Max. / Min.)						4.5MPa	/1.5MPa				
Pofrigorant	Туре		R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Reingeran	Charged	kg	1.05	1.2	1.3	1.5	1.75	2.1	2.1	1.75	2.1	2.1
GWP value			675	675	675	675	675	675	675	675	675	675
Equivalent CO2		Ton	0.709	0.810	0.878	1.013	1.181	1.417	1.417	1.181	1.417	1.417
	Type						Twin rotary	/ DC inverte	er			
	Brand		Mitsubishi									
Madal			SVBTZENPMC SVBTZENPMC SVB220FLGMC-L SVB220FLGMC-L MVB33FBBMC MVR42FCRMC-I MVR42FCRMC-I MVR43FFRMC MVR42FCRMC-I MVR42FCRMC-I									
	Model		SVB172ENDMC	SVR172ENDMC	SVR220ELGMC-L	SVR220ELGMC-L	MURTERRAC	MVR42ECRMC-L	MVR42ECBMC-I	MVR33ERBMC	MVB42ECBMC-I	MVR42ECRMC-I
	Model		SVB172FNPMC	SVB172FNPMC	SVB220FLGMC-L	SVB220FLGMC-L	MVB33FBBMC	MVB42FCBMC-L	MVB42FCBMC-L	MVB33FBBMC	MVB42FCBMC-L	MVB42FCBMC-L
	Model Quantity	134/	SVB172FNPMC	SVB172FNPMC	SVB220FLGMC+L	SVB220FLGMC-L	MVB33FBBMC	MVB42FCBMC-L	MVB42FCBMC-L	MVB33FBBMC	MVB42FCBMC-L	MVB42FCBMC+L
Compressor	Model Quantity Capacity	kW	SVB172FNPMC 1 5.54 (@60rps)	SVB172FNPMC 1 5.54 (@60rps)	5VB220FLGMC-L 1 7.10 (@60rps)	SVB220FLGMC-L 1 7.10 (@60rps)	MVB33FBBMC 1 11.37 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps)	MVB33FBBMC 1 11.37 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps)
Compressor	Model Quantity Capacity Input	kW kW	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps)	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps)	3VB220FLGMC-L 1 710 (@60rps) 2.23 (@60rps)	SVB220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps)	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps)	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps)	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps)
Compressor	Model Quantity Capacity Input Current	kW kW A	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps)	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps)	SVB220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps)	SVE220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps)	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps)	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps)	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps)
Compressor	Model Quantity Capacity Input Current Oil type / charger	kW kW A d	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW68S / 600ml	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW68S / 600ml	SVB220FLGMC-L 1 730 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S /460ml	SVB220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S / 460m1	MVB33F8BMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml	MVB42FC8MC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PW68S / 1250ml	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml
Compressor	Model Quantity Capacity Input Current Oil type / charger Motor type	kW kW A d	SVB172FNPMC           1           5.54 (@60rps)           1.73 (@60rps)           5.1 (@60rps)           FW685 / 600ml	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW68S / 600ml	SVB220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S /460ml	SVB220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S / 460ml	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml Brushles	1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml s DC motor	MVB42FC8MC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml
Compressor Outdoor fan	Model Quantity Capacity Input Current Oil type / charger Motor type Number of fans	kW kW A d	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW68S / 600ml 1 1 1 1	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW685 / 600ml	SVE220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S /460ml 1	SVE220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S / 460ml 1	MVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml Brushles 1	NVB42FC8MC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml	NVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml 1 1
Compressor Outdoor fan Air side heat	Model Quantity Capacity Input Current Oil type / charger Motor type Number of fans Material	kW kW A d	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW68S / 600ml 1 1	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW68S / 600ml	SVB220FLGMC-L 1 730 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW668 /460rnl 1	1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S / 460ml 1 1 Hydrophilic	NVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 1100ml Brushles 1 aluminum 8	1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1 clinner groot	NVB42FC8MC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml	NVB33FBBMC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 1100ml 1 1 1 1 1 1 1 1 1 1 1 1 1	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 12SOml 1 1	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml 1 FW68S / 1250ml
Compressor Outdoor fan Air side heat exchanger	Model Quantity Capacity Input Current Oil type / charger Motor type Number of fans Material Rows	kW kW A d	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW68S / 600ml 1 1 1 1 1 1 1 1 1 1 1 1 1	SVB172FNPMC 1 5.54 (@60rps) 5.3 (@60rps) 5.3 (@60rps) FW685 / 600ml 1 1 7 8 6 8 1 1 5	SVB220FLGMC-L 1 7J0 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW68S /460ml 1 1 2 2	VB220FLGMC-L 1 710 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5	11.37 (@60rps) 11.37 (@60rps) 11.660rps) 11 (@60rps) FW685 / 1100ml Brushless 1 aluminum 8 2.5	MVB42FCBMC-L 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 5 DC motor 1 1 c Inner grocc 3	NV842FC8MC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml PW685 / 1250ml 1 ve copper t 3	NVB33FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100ml 1 1 1 1 2.5	NVE42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 1 FW685 / 1250ml 3	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW68S / 1250ml 1 FW68S / 1250ml 3
Compressor Outdoor fan Air side heat exchanger	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size	kW kW A d	SV8172FNPMC 1 5.5.4 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1 1 1.5 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0	SVB172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1 5 1 6 0 7 0 7 0 7 0 7 0 7	SV8220FLGMC-L 1 7J.0 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 /460ml 1 2 2 0 0 7 1 2 0 0 7	SVE220FLGMC-L 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Φ7	NVB33FBBMC 1 1.3.57(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) PW685/100ml Brushless 1 aluminum & 2.5 07	AVB42FGBMC-L 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1 c Inner grocc 3 Ф7	MVB42FGBMC-L 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 18 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rps)	NV833FBBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100ml PW685 / 100ml 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (@60'rps) 4.4 (@60'rps) 13 (@60'rps) 13 (@60'rps) 13 (@60'rps) 14.250ml 13 (@60'rps) 14.250ml 1	NVB42FCEMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 1 1 3 Ф7
Compressor Outdoor fan Air side heat exchanger	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type	kW kW A d	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1 1.5 0 0 7	SVB172FNPMC 1 5.5.4 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW68S / 600ml 1 1.5 (@60rps) 1.5 (@60rps) 1.5 (@60rps) 1.5 (@60rps) 1.75 (@60rps) 1.5	3V8220FLGMC-L 1 210 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 /460ml 1 2 2 0 7 0 7	SVE220FLGMC-L 1 2.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) 6.6 (@60rps) 1 Hydrophilic 2.5 0.7	NVB33FBBAC 1 1.3.7(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 12(80rps) 13.57(@60rps) 14(80rps) 1	AVVB42FCBMC-L 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) FV6685 / 1250ml 8 DC motor 1 c Inner grooc 3 07 2 0 2 0 2 0 2 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (@60rps) 13 (@00rps) 13 (@00rps) FW68S / 1250ml Ve copper 1 3 0 0 7	NV833F88AC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW68S / 1100ml PW68S / 1100ml 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (@60rpa) 13 (@60rpa) 13 (@60rpa) PW685 / 1250ml 1 1 3 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (860cps) 4.4 (860cps) 13 (860cps) 13 (860cps) 14 (860cps) 13 (860cps) 13 (860cps) 13 (800cps) 13 (800cps) 14 (800cps) 14 (800cps) 14 (800cps) 15 (800cps) 16 (800cps
Compressor Outdoor fan Air side heat exchanger	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type	kW kW A d	SV8172FN9MC 1 5.54 (@60rps) 5.1 (@60rps) FW6857 600ml 1 1.5 0 7 0 1 0 1 0 1 0 1 0 1 0 0 7	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) PW685 / 600ml 1 1.6 0 0 7	5/8220FL0MC-1 1 720 (@60/ps) 223 (@60/ps) 6.6 (@60/ps) FW685 /460ml 1 1 2 2 0 7	5/8220FL0MC-1 1 7/0 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Φ7	MVB33FBBAC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml Brushles 1 8 2.5 07 3 E B	MVB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 5 DC motor 1 1 Inner groco 3 07 Jade LDC	MVB42FCBMC-1 1 13.38 (@60rps) 13.(@60rps) 13.(@60rps) 13.(@60rps) 13.(@60rps) 14.4 (@60rps) 13.(@60rps) 14.4 (@60rps) 14.5 (@60rps) 14.5 (@60rps) 14.6 (@60rps) 15.6 (@60rps) 14.6 (@60rps) 15.6 (@60rps)	NVE33FBMC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml 2.57 4 2.57 4 0 7 4 4 7 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7	MVB42FCBMC-L 1 14.38 (@60rpa) 13 (@60rpa) 13 (@60rpa) PW685 / 1250ml 1 3 0 0 7 0 7 0 0 7 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0	NVB42FCBMC-L 1 14.38 (@60rps) 33 (@60rps) 13 (@60rps) PW685 / 1250ml 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0
Compressor Outdoor fan Air side heat exchanger Fan motor	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor model	kW kW A d	SV8172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW985 / 600ml 1 1.5 0 0 1 1.5 0 7 EHTSO3BLO	SVB172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) PW685 / 600ml 1 1 1.5 0 0 7 EHTSO3BLQ	5/8220FL0MC-1 1 220 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 /460ml 1 1 2 2 0 7 5 8 6 8 7 8 7 8 8 8 7 8 7 8 8 8 8 8 8 9 8 9 8	5/8220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 07 EHTSO3BLQ	NV833FBBAC 1 1.37 (@60rps) 3.57 (@60rps) 17 (@60rps) PW887 /100ml Brushles 1 3 4 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1 clinner groco 3 07 2 clinae LDC EHTSO3BLO	MVB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14.4 (@60rps) 13 (@50rps) 14.4 (@60rps) 13 (@50rps) 14.4 (@60rps) 14.4 (@60rps) 15 (@50rps) 16 (@50rps) 17 (@50rps) 18	NV835FBMC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW6857 1100ml 4 Comparison 1 Comparison	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@60rps) 14 (@60rps) 15 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps	NVIL42FCBNC-L 1 14.38 (@60rps) 33 (@60rps) 13 (@60rps) PW685 / 1250ml 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0
Compressor Outdoor fan Air side heat exchanger Fan motor	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor model	kW kW A d	SV8172FNPMC 1 5.54 (@60гра) 1.75 (@60гра) 5.1 (@60гра) FW685 / 600гла 1 1.5 Ф7 EHTSO3BLQ	SVB172FNPMC 1 5.54 (@60гра) 1.73 (@60гра) 3.1 (@60гра) 7 (@60гра)	svez2oFLoMc-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685.460ml 1 2 2 Ф7 EHTSO3BLQ	svezoFLoMc-1 1 7.10 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 5W685 / 460ml 1 Hydrophilic 2.5 Ф7 EHTSO3BLO	NV835FBARC 1 11.57 (@60rps) 3.57 (@60rps) 17 (@60rps) PV685 / 100ml Brushles 1 aluminum & 2.5 Φ7 3 E EHTSO38L0 Pan	NVB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 18 (@60rps) 19 (@60rps) 10 (@60rps)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rp	мVB33FBBMC 1 1.57 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 1100ml 2.5 Ф7 EHTSO3BLO	МУВ42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@600rps) 13 (@60rps) 44 (@600rps) 14 (@600rps) 14 (@600rps) 15 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@	MVB42FCBMC-L 1 14.38 (@40rps) 34 (@40rps) 33 (@40rps) FW685 / 1250ml 1 7 0 0 0 0 0 0 0 0 0 0 0 0 0
Compressor Outdoor fan Air side heat exchanger Fan motor	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor model Motor Brand	kW kW A d	SV8172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1.5 0 7 0 1 5 0 7 EHTSO3BLQ 1 1	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps)	3/8220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685/460ml 1 2 0 7 EHTSO3BLQ 1	svezoFLOMC-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Ф7 EHTSO3BLQ 1	NV835FBAC 1 1.57 (@60rps) 3.57 (@60rps) 1 (@60rps) PW685 / 100ml Brushles 1 aluminum & 2.5 07 3 E EHTSO3BLO Pan 1	1 14.38 (#60rps) 13 (#60rps) 13 (#60rps) 13 (#60rps) 13 (#60rps) 13 (#60rps) 14 (#60rps) 13 (#60rps) 14 (#60rps) 15 (#60rps) 10 (#60rps) 10 (#60rps) 10 (#60rps) 11 (#60rps) 11 (#60rps) 12 (#60rps) 12 (#60rps) 12 (#60rps) 13 (#60rps) 14 (#60rps) 13 (#60rps) 14 (#60rps) 13 (#60rps) 13 (#60rps) 13 (#60rps) 14 (#60rps) 13 (#60rps) 14 (#60rps) 13 (#60rps) 14 (#60rps) 14 (#60rps) 15 (#60rps) 16 (#60rps) 16 (#60rps) 16 (#60rps) 17 (#60rps)	NVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@60rps) 14 (@60rps) 14 (@60rps) 14 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps	мувзяванс 1 1.57 (@60rpa) 3.57 (@60rpa) 11 (@60rpa) 11 (@60rpa) 10 (@60rpa)	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) PWe85 / 1250ml 1 2 0 0 1 EHTSO3BLO 1	NVB42FCBNC-L 1 14.38 (@60rps) 33 (@60rps) 13 (@60rps) FW685 / 1250ml 1 3 0 7 EHTSO3BLO 1
Compressor Outdoor fan Air side heat exchanger Fan motor	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed	kW kW d mm	SV8172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1 1 1.5 0 7 0 7 EHTSO3BLQ 1 1 850	SVB172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5 1 (@60rps) 5 1 (@60rps) 5 1 (@60rps) 1 7 (@60rps) 1 1.5 0 7 EHTSO3BLQ 1 1 850	5/8220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW665./460ml 1 2 0 7 EHTSO3BLQ 1 8 50	svezoFLOMC-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Ø7 EHTSO3BLQ 1 850	NV835FBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) 11 (@60rps) 10 (@60rps)	NUB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 16 (@60rps) 17 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rps)	MVB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 1 (	NVB33FBMC 1 1.57 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 1000ml 2.55 Ф7 EHTSO3BLQ 1 850	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) 13 (@60'ps) 13 (@60'ps) 13 (@60'ps) 13 (@60'ps) 14 (@60'ps) 15 (@60'ps) 16 (@60'ps) 17 (@60'ps) 17 (@60'ps) 18 (@60'ps	MVB42FCBMC-L 1 14.38 (@60rps) 34 (@60rps) 13 (@60rps) FW685 / 1250ml 1 7 6 7 7 7 7 7 8 7 8 7 8 1 8 25
Compressor Outdoor fan Air side heat exchanger Fan motor	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed	kW kW d mm	SV8172FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 7 0 1 1.5 0 7 EHTSO3BLQ 1 1 850	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW685 / 600ml 1 7 1.55 07 EHTSO3BLQ 1 850	5/9220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW665.460ml 1 2 0 7 EHTSO3BLQ 1 8 500	svezoFLOMC-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 07 EHTSO3BLO 1 850	NV835FBMC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) 11 (@60rps) 12 (@60rps) 13 (@60rps) 14 (@60rps)	NUB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rps)	MVB42rCBMC-1 1 14.38 (@60rps) 33 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps)	NVB33FBMC 1 1.57 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100011 2.55 07 EHTSO3BLO 1 850	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) 13 (@60'ps) PW685 / 1250ml 1 3 Ф7 EHTSO3BLQ 1 825	NVB42FCBNC-1 1 14.38 (@60rps) 34 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 10 10 11 12 12 12 12 12 12 12 12 12
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed	kW kW d mm	SV8172FNPMC 1 1 5.54 (@607ps) 1.73 (@607ps) 5.1(@607ps) 1.73 (@607ps) 1.73 (@607ps) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW685 / 600ml 1 7 1 1.55 07 EHTSO3BLQ 1 850	5/9220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW485 /460ml 1 2 0 7 EHTSO3BLQ 1 8 500	svezoFLOMC-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 07 EHTSO3BLO 1 850	NVESSFERIC 1 1.37 (@60rps) 3.57 (@60rps) 1 (@60rps	NUB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rps)	MVB42rCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps	NVB33FBBAC 1 11.57 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100001 2.55 07 EHTSO3BLO 1 850	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) 13 (@60'ps) PW685 / 1250ml 1 3 Ф7 EHTSO3BLQ 1 825	NUR42FCBNC-L 1 14.38 (@60/ps) 34.4 (@60/ps) 13 (@60/ps) FW685 / 1250ml 1 7 0 7 0 7 0 7 0 7 0 7 0 7 0 1 8 25 1 1 8 25
Compressor Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power leveló	Model Quantity Capacity Input Current Oil type / charger Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed	kW kW d mm rpm	SV8172FNPMC	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW685 / 600ml 1 7 1 1 1 1 1 5 0 7 1 1 8 5 8	5/9220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 /460ml 1 2 2 0 7 8 8 59	svezorLoMc-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Φ7 EHTSO3BLQ 1 850	NVESSFERIC 1 1.37(@60rps) 3.57(@60rps) 11(@0rps) 11(@0rps) 11(@0rps) 11(@0rps) 11(@0rps) 12(@0rps) 13(0rps) 14(0rps	NUB42FCBMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 17 (@60rps) 18 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rps)	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml PW685 / 1250ml COMPANY EHTSO3BLQ 1 8255 IVE 68	NVB33FBBAC 1 11.57 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100001 2.55 07 2.5 07 2.5 07 1 8500 1 8500	MVB42FCBWC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml PW685 / 1250ml 1 8 6 5 6 5	NUR42FCBNC-1 1 14.38 (@60/ps) 34.4 (@60/ps) 13 (@60/ps) FW685 / 1250ml 1 7 0 7 0 7 0 7 0 7 0 7 0 7 0 1 8 25 0 6 8
Compressor Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level6 Sound power level6	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed	kW kW d mm rpm	SV8172FNPMC 1 1 5.54 (@607ps) 17.73 (@607ps) 5.1(@607ps) 17.73 (@607ps) 17.73 (@607ps) 17.5 0 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW685 / 600ml 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	SVE220FLOMC-1 1 710 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FWe85 /460ml 1 2 0 1 EHTSO3BLQ 1 850 59	svezorLoMc-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Ф7 EHTSO3BLQ 1 850 60 60	NVESSFERIC 1 1.37(@60rps) 3.57(@60rps) 11(@0rps) 11(@0rps) 11(@0rps) 11(@0rps) 11(@0rps) 12(@0rps) 14(@0rps) 1	NUBASECEMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1 S DC motor 1 Comparison 4 Comparison 1 825 xpansion var t exchanger 65 5	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PWess / 1250ml 4 Comparison 1 0 0 0 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 8 8 8 8 8 8 8 8 8 8 8 8 8	NVESSFERENC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 100001 2.5 07 2.5 07 1 EHTSO3BLQ 1 8.500	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 825 5 65 5 5 5	NUR42FCBNC-1
Compressor Compressor Cutdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level6	Model Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed Current Cu	kW kW d mm rpm dB dB	SV8172FNPMC 1 5.54 (@607ps) 1.73 (@607ps) 5.1(@607ps) FW685 / 600ml 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW685 / 600ml 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	SVE220FLOMC-1 1 710 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FWe85 /460ml 1 2 2 0 7 8 8 5 9 4 9	svezorLoMc-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Φ7 EHTSO3BLQ 1 850 1 850 60 50	NVESSFERIC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@0rps) 11 (@0rps) 11 (@0rps) 12 (@0rps) 13 (@0rps) 14 (@0rps	NUBASECEMC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@60rps) 15 (@60rps) 16 (@60rps) 16 (@60rps) 17 (@60rps) 17 (@60rps) 17 (@60rps) 18 (@60rps) 18 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 19 (@60rps) 10 (@60rps)	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 2 1 WE CODPERT 3 0 0 7 EHTSO3BLO 1 8255 1 WE 58	NVESSFERNC 1 1.57 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100001 2.55 07 07 EHTSO3BLQ 1 8.500	MVB42FCBWC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 825 5 5 5 5 5 1	NUR42FCBNC-1 1 14.38 (@60/pa) 4.4 (@60/pa) 13 (@60/pa) 13 (@60/pa) PW685 / 1250ml 1 3 0 7 HTSO3BLQ 1 8225 68 58
Compressor Compressor Cutdoor fan Cutdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level6 Sound p	Nodel Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Tube size Fan type Motor type Motor ryne Motor Brand Quantity Speed	kW kW d mm rpm dB dB	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1.5 0 7 0 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60fpa) 1.73 (@60fpa) 5.1 (@60fpa) FW685 / 600fml 1.73 (@60fpa) FW685 / 600fml 1.75 0.75 0.75 1.75 0	5/9220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 /460ml 1 2 2 0 7 8 8 5 9 4 9	svezorLoMc-1 1 7.10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Φ7 EHTSO3BLQ 1 850 60 50	NVESSFERIC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@0rps) 11 (@0rps) 11 (@0rps) 12 (@0rps) 13 (@0rps) 14 (@0rps) 14 (@0rps) 14 (@0rps) 15 (@0rps) 16 (@0rps) 17 (@0rps) 18 (@0rps) 18 (@0rps) 19 (@0rps	NUB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1 s DC motor 1 s DC motor 1 control (%) 1 1 1 1 1 1 1 1 1 1 1 1 1	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PWe8S / 1250ml COMPANY PWe8S / 1250ml COMPANY C	NVESSFERENC 1 11.57 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 100001 2.55 07 2.5 07 1 8.50 1 8.50	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 825 5 5 5 5 5 1	NUR42FCBNC-1 1 14.38 (@60/pa) 34.4 (@60/pa) 13 (@60/pa) 13 (@60/pa) PW685 / 1250ml 1 3 Φ7 EHTSO38LQ 1 8225 68 58
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover	Nodel Quantity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed	kW kW d mm rpm dB dB	SV8172FN9MC 1 5.54 (@60rps) 5.3 (@60rps) 5.3 (@60rps) FW685 / 600ml 1 1 0 1 1 5 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 5.1 (@60rps) FW685 / 600rnl 1.73 (@60rps) FW685 / 600rnl 1.75 0	5/9220FL0MC-1 1 7/10 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FWe85 /460ml 1 2 2 0 7 8 8 5 9 4 9	5VE220FL0MC-1 1 7J0 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Φ7 EHTSO3BLQ 1 850 60 50	NVESSFERIC 1 1.37(@60rps) 3.57(@60rps) 11(@0rps) 11(@0rps) 11(@0rps) 11(@0rps) 11(@0rps) 12(@0rps) 14(@0rps) 1	NUB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml s DC motor 1 S DC motor 1 Comparison 3 07 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PWe85 / 1250ml Composition 1 0 0 0 0 0 0 0 0 0 0 0 0 0	NVESSFERENC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@0rps) PW685 / 100ml 2.5 07 07 EHTSO3BLQ 1 8.50 64 54	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml 7 MV685 / 1250ml 1 8 6 5 5 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1	MV842FCBMC-L 1 14.38 ((860rps) 33 ((860rps)) 13 (860rps) 13 (860rps) 14 (8807s) 13 (860rps) 14 (8807s) 15 (8607s) 1 8 4 4 4 1 8 25 6 8 5 8 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance	Nodel Quantity Capacity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor Brand Quantity Speed node)	kW kW A d d d mm epm dB dB dB	SV8172FN9MC 1 5.54 (@60rps) 5.1 (@60rps) FW685 / 600rr 1 1 1.5 0 7 0 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBI72FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) 7 W685 / 600ml 1 1.5 0 0 7 EHTSO38LQ 1 8 500 5 8 48 48	svezzoFLGMC-1 1 20 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 /460ml 1 2 0 7 FW685 /460ml 1 2 0 7 1 8 50 59 49 0 3 3 4 9	SVE220FLOMC-1 1 2.03 (@60rps) 2.23 (@60rps) 6.6 (@60rps) PW685 / 460ml 1 Hydrophilic 2.5 07 EHTSO38LQ 1 850 60 50	MVESSFBARC 1 11.37 (@c0rps) 3.57 (@c0rps) 11 (@c0rps) PW685 / 100ml Brushles 1 2.5 07 3 L B EHTS038LQ Pan 1 8500 Electronic e Plate hea 64 54 GR 1 1 1 1 1 1 1 1 1 1 1 1 1	44 (@60rps) 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 13 (@60rps) 14 (@60rps) 15 (Contemported 1 (Contemported 1 (Contemported 1 (Contemported) 1	MVB42FCBMC-L 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 1 825 14 68 58 58	NVESSFERANC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 100ml 2.5 07 2.5 07 1 8 50 6 4 54 54	MVB42FCBMC-L 1 14.38 (@60'rps) 4.4 (@60'rps) 13 (@60'rps) PW685 / 1250ml 3 CHTSO3BLQ 1 EHTSO3BLQ 1 8255 55 55	MV842FCBMC-L 1 14.38 ((860rps) 33 ((860rps) 13 (860rps) 13 (860rps) PW685 / 1290rel 1 3 0 0 1 1 8 2 5 8 6 8 5 8 8 1 1 8 2 5 8 1 1 8 2 5 8 1 1 8 2 5 8 1 1 8 2 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection	Model       Quantity       Capacity       Input       Current       Oil type / charge       Motor type       Number of fans       Material       Rows       Tube size       Motor type       Motor type       Motor type       Motor Type       Motor Type       Motor Brand       Quantity       Speed       Anterial       Indet       Notor Diagon	kW kW A d d mm dB dB dB dB	SV8172FN94KC 1 5.54 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1 1 1 1 1 1 5 0 7 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1	SUBI72FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) FW68S / 600ml 1 1.5 0 7 W68S / 600ml 1 1.5 0 7 8 50 1 8 50 4 8 48 48 0 3 0 3 0 3 0 0 1 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	SVE220FL0MC-1 1 220 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 /460ml 1 2 0 7 FW685 /460ml 1 2 0 7 1 8 50 59 49 49 0 33 0,37	SVE220FL0MC-1 1 2.23 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 07 EHTSO38LQ 1 850 60 50 60 50	NVESSFERAC 1 1.37(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) PW685/100ml Brushles 1 aluminum & 2.5 07 3 L 6 07 3 L B EHTSO38LQ Pan 1 8500 Electronic e Plate hea 64 54 64 1 1 8500 Electronic e Plate hea 64 54 64 54 68 1 1 1 1 1 1 1 1 1 1 1 1 1	NUMBASECEMIC-1           1           14.38 (@60rps)           13 (@60rps)           13 (@60rps)           S DC motor           1           s DC motor           1           control           1           control           1           control           1           control           1           control           1           control           3           07           control           3           07           control           3           07           control           1           control           1           control           1           scontic           5           5 <tr< td=""><td>MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@68 58 58 04 05 05 05 05 05 05 05 05 05 05</td><td>NVESSFERANC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml 2.55 07 2.55 07 1 8.500 1 8.500 4 54 54 54 54 54 54 54 54 54</td><td>MVB42FCBMC-L 1 14.38 (@60'rps) 4.4 (@60'rps) 13 (@60'rps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 8 25 5 5 5 5 5 5 5 5 5 5 5 5 5</td><td>MVB42FCBMC-L 1 14.36 ((#60rps) 4.4 (@40rps) 13 ((#60rps) 13 ((#60rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 15 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 15 (@40rps) 14 (@40rps) 15 (@40rps) 16 (@40rps) 16 (@40rps) 16 (@40rps) 17 (@40rps) 17 (@40rps) 17 (@40rps) 18 (@40</td></tr<>	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 14 (@68 58 58 04 05 05 05 05 05 05 05 05 05 05	NVESSFERANC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml 2.55 07 2.55 07 1 8.500 1 8.500 4 54 54 54 54 54 54 54 54 54	MVB42FCBMC-L 1 14.38 (@60'rps) 4.4 (@60'rps) 13 (@60'rps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 8 25 5 5 5 5 5 5 5 5 5 5 5 5 5	MVB42FCBMC-L 1 14.36 ((#60rps) 4.4 (@40rps) 13 ((#60rps) 13 ((#60rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 15 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 14 (@40rps) 15 (@40rps) 14 (@40rps) 15 (@40rps) 16 (@40rps) 16 (@40rps) 16 (@40rps) 17 (@40rps) 17 (@40rps) 17 (@40rps) 18 (@40
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection	Model       Quantity       Capacity       Input       Current       Oil type / charge       Motor type       Number of fans       Material       Rows       Tube size       Aotor type       Motor type       Motor type       Motor type       Motor Type       Motor Brand       Quantity       Speed       Anterial       Notor Brand       Motor Brand       Quantity       Speed       Anterial       Notor Brand       Quantity       Speed       Anterial       Notor Brand       Quantity       Speed       Anterial       Notor Brand       Quantity       Speed       Anterial       Anterial <td>kW kW A d d mm dB dB dB dB dB</td> <td>SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW985 / 600ml 1 1 1.5 0 7 1 1 8 50 1 1 8 50 4 6 4 6 4 6 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>SUBIZZENAPAIC 1 5.54 (@607ps) 1.73 (@607ps) 51 (@607ps) 1.73 (@607ps) FW685 / 600ml 1 1.5 Ф7 1 850 1 850 58 48 48 48 9 0,33 0,33 7,20,77</td> <td>SVE220FL0MC-1 1 720 (@60rps) 2.23 (@60rps) 2.23 (@60rps) PW085 /460ml 1 2 0 0 1 8 50 59 49 49 0 33 0 33 0 0 2 2 0 1 8 0 0 1 8 0 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>svezzoFLoMc-L 1 2.23 (@60rps) 2.23 (@60rps) 4.6 (@60rps) 4.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Ф7 EHTSO3BLQ 1 850 1 60 50 60 50 0 0 33 Ф333</td> <td>NVESSFERAC 1 1.37(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) PW685/100ml Brushless 1 aluminum &amp; 2.5 07 3 k 6 4 6 1 8 50 EHTSO38LQ Pane 1 8500 Electronic e Plate heat 64 54 64 1 8 64 54 64 54 64 64 54 64 64 54 64 64 54 64 64 54 64 64 64 64 64 64 64 64 64 6</td> <td>NUBASECEMIC-1           1           14.38 (@60rps)           13 (@60rps)           13 (@60rps)           S DC motor           1           s DD motor           1           Inner groco           3           07           Jalade           LDC           EHTSO38LQ           asonic           1           R255           xpansion ver           65           55           -LCO7           NO           PX4           033           033           033</td> <td>MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 1 825 1 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>NVESSFERANC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml 2.55 07 2.55 07 1 8.500 1 8.500 4 54 54 54 54 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 0 7 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 8 25 5 5 5 5 5 5 5 5 5 5 5 5 5</td> <td>MURAZECENC-L 1 14.38 ((#60-ps) 33 (#60-ps) 13 (#60-ps) 13 (#60-ps) 14 (#60-ps) 14 (#60-ps) 14 (#60-ps) 15 (#60-ps) 64 58 58 58 58 58 58 58 58 58 58</td>	kW kW A d d mm dB dB dB dB dB	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW985 / 600ml 1 1 1.5 0 7 1 1 8 50 1 1 8 50 4 6 4 6 4 6 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 8 50 1 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1	SUBIZZENAPAIC 1 5.54 (@607ps) 1.73 (@607ps) 51 (@607ps) 1.73 (@607ps) FW685 / 600ml 1 1.5 Ф7 1 850 1 850 58 48 48 48 9 0,33 0,33 7,20,77	SVE220FL0MC-1 1 720 (@60rps) 2.23 (@60rps) 2.23 (@60rps) PW085 /460ml 1 2 0 0 1 8 50 59 49 49 0 33 0 33 0 0 2 2 0 1 8 0 0 1 8 0 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0	svezzoFLoMc-L 1 2.23 (@60rps) 2.23 (@60rps) 4.6 (@60rps) 4.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Ф7 EHTSO3BLQ 1 850 1 60 50 60 50 0 0 33 Ф333	NVESSFERAC 1 1.37(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) PW685/100ml Brushless 1 aluminum & 2.5 07 3 k 6 4 6 1 8 50 EHTSO38LQ Pane 1 8500 Electronic e Plate heat 64 54 64 1 8 64 54 64 54 64 64 54 64 64 54 64 64 54 64 64 54 64 64 64 64 64 64 64 64 64 6	NUBASECEMIC-1           1           14.38 (@60rps)           13 (@60rps)           13 (@60rps)           S DC motor           1           s DD motor           1           Inner groco           3           07           Jalade           LDC           EHTSO38LQ           asonic           1           R255           xpansion ver           65           55           -LCO7           NO           PX4           033           033           033	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 1 825 1 8 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1	NVESSFERANC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml 2.55 07 2.55 07 1 8.500 1 8.500 4 54 54 54 54 0 7 0 7 0 7 0 7 0 7 0 7 0 7 0 0 7 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (@60'ps) 4.4 (@60'ps) 13 (@60'ps) PW685 / 1250ml PW685 / 1250ml 1 3 0 0 1 8 25 5 5 5 5 5 5 5 5 5 5 5 5 5	MURAZECENC-L 1 14.38 ((#60-ps) 33 (#60-ps) 13 (#60-ps) 13 (#60-ps) 14 (#60-ps) 14 (#60-ps) 14 (#60-ps) 15 (#60-ps) 64 58 58 58 58 58 58 58 58 58 58
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection Net/Gross weight	Model       Quantity       Capacity       Input       Current       Oil type / charge       Motor type       Number of fans       Material       Rows       Tube size       Fan type       Motor type       Motor type       Motor type       Motor Rrand       Quantity       Speed       Anore       Anore       Motor Brand       Quantity       Speed       Inlet       Outlet       Net/Gross	kW A d d mm rpm dB dB dB dB dB mm	SV8172FN9HAC 1 5.54 (@c0rps) 5.1 (@c0rps) 5.1 (@c0rps) FW985 / c00ml 1 1.5 0 7 0 1 1.5 0 7 1 8 50 1 556 46 46 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	SVBI72FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 51 (@60rps) 7 W685 / 600ml 1 1.5 Φ7 1 1.5 Φ7 1 8500 1 8500 58 48 48	SVE220FL0MC-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 1 2 0 0 0 1 8 50 1 8 59 49 49 0 33 0 33 80/95	SVE220FLOMC-1 1 2.23 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 1 1 1 2.5 Ф7 EHTSO38LQ 1 8500 60 50 60 50 0 33 88/104	NVESSFERAC 1 1.37(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 12(@60rps) 13(%) 14(%	NUBASECEMIC-1 1 14.38 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 13 (@60rps) 14 (@60rps) 10 (@60rps	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@00rps) FW685 / 1250ml 7 We copper 1 3 Ф7 EHTSO38LQ 1 8255 1 825 1 1 1 1 1 1 1 1 1 1 1 1 1	NVESSFERANC 1 11.37 (@60rps) 3.57 (@60rps) 11 (@60rps) PW685 / 1100ml 2.55 Ф7 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	MVB42FCBMC-L 1 14.38 (@60'rps) 4.4 (@60'rps) 13 (@60'rps) PW685 / 1250ml 13 (@07) PW685 / 1250ml 13 (@07) EHTSO3BLO 14 8255 555 555 555 555 033 033 1177150 00.057 0	MURAZECENC-L 1 14.38 ((#60-ps) 33 (#60-ps) 13 (#60-ps) 13 (#60-ps) PW685 / 1250ml 1 3 0 0 1 1 8225 1 1 8225 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 1 825 1 1 1 1 1 1 1 1 1 1 1 1 1
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level 6 Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection Net/Gross weight	Model       Quantity       Capacity       Input       Current       Oil type / charge       Motor type       Number of fans       Material       Rows       Tube size       Fan type       Motor type       Motor type       Motor Type       Motor Brand       Quantity       Speed       Inlet       Outlet       Net       Packing	kW kW A d d mm dB dB dB dB dB dB dB dB dB dB dB dB dB	SV8172FNPMC 1 5.54 (@c0rps) 5.1 (@c0rps) 5.1 (@c0rps) FW985 / c00ml 1 1.5 0 7 0 1 8 50 1 8 50 4 6 4 6 1 8 50 4 1 8 50 4 1 8 50 1 1 8 50 1 1 8 50 1 1 1 1 1 1 1 1 1 1 1 1 1	SUBI72FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.75 (@60rps) 1.75 (@60rps) 0.75	SVE220FLOMC-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 /460ml 1 2 0 0 1 8 50 59 49 49 0 33 8 0 7 125-370-680 7 	SVE220FLOMC-1 1 2.23 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 4.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 0/7 EHTSO38LQ 1 8500 60 50 60 50 033 88/004 1155/370-803	NVESSFERIC 1 1.57(@60rps) 3.57(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 11(@60rps) 12(@60rps) 13(%60rps) 14(%60rps)	NUBASECEMIC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / I250ml 8 DC motor 1 8 DC motor 1 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 7 We copper 1 3 Ф7 EHTSO38LQ 1 8255 1 1 8255 1 1 825 1 1 1 825 1 1 1 825 1 1 1 825 1 1 1 1 825 1 1 1 1 1 1 1 1 1 1 1 1 1	NVESSFERAC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 1100ml 2.55 Ф7 4 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PW68S / I250ml 0 1 3 0 0 1 8 25 5 5 5 5 5 5 1 1 7 1 8 25 1 1 8 25 1 1 8 25 1 1 1 8 25 1 1 1 8 25 1 1 1 8 25 1 1 1 1 1 1 1 1 1 1 1 1 1	MURAZIFCEMC-L 1 14.38 ((#60rps) 4.4 ((#60rps) 13 ((#60rps) 13 ((#60rps) 14 ((#60rps) 14 (#60rps) 14 (#60rps) 15 ((#60rps) 4.4 ((#60rps) 16 (#60rps) 17 (#60rps) 18 (#60rps) 1
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water rejie connection Net/Gross weight Dimension (L×W×H)	Model       Quantity       Capacity       Input       Current       Oil type / charge       Motor type       Number of fans       Material       Rows       Tube size       Fan type       Motor type       Motor type       Motor Type       Motor Brand       Quantity       Speed       Inlet       Outlet       Net/Gross       Net/Gross       Net/Gross	kW kW A d d mm dB dB dB dB dB dB dB dB dB dB dB dB dB	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600rsl 1 1.5 0 7 EHTSO3BLO 1 850 1 850 46 0 3.3 0,33 76/81 125×370×680 105×440×865	SVBI72FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.75 (@60rps) 1.65 0.75 0.	SVE220FLOMC-1 1 1710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) PW685 /460ml 1 2 0 1 2 0 7 2 0 7 2 0 7 2 0 7 2 0 7 2 0 7 2 0 7 1 8 50 2 9 49 1 12 8 50 3 8 0 7 12 1 8 50 1 1 8 50 1 1 8 50 1 1 1 8 50 1 1 1 8 50 1 1 1 8 50 1 1 1 8 50 1 1 1 8 50 1 1 1 8 50 1 1 1 8 50 1 1 8 50 1 1 1 1 8 50 1 1 1 8 50 1 1 1 5 5 1 1 1 5 5 1 1 1 5 5 1 1 5 5 1 1 1 5 5 5 1 1 5 5 5 1 1 5 5 5 1 1 5 5 5 5 1 1 5 5 5 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5	SVE220FL0MC-1 1 2.23 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 07 EHTSO38LQ 1 8500 60 50 60 50 0333 0333 88/104 1135×370×803 1200×488×982	MVB33FBBAC 1 11.37(@60rps) 3.57(@00rps) 11 (@00rps) 11 (@00rps) PW685 / 100ml Brushles 1 aluminum & 2.5 07 3 k 07 3 k 07 1 8500 Electronic e Plate hea 64 54 64 54 GR 0333 97/117 1135×370×803 120×488×982	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 8 DC motor 1 8 DC motor 1 9 Jade LDC EHTSO3BLQ asonic 1 8255 xpansion va t exchange 65 55 -LCO7 NO PX4 0.33 0.33 117/136 203-435-860 36 120-405-104 120-4	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 7 We copper 1 3 0 0 0 1 8255 1 1 1 1 1 1 1 1 1 1 1 1 1	NVESSFERANC 1 1.37 (@60rps) 3.57 (@60rps) 11 (@60rps) FW685 / 100ml 2.5 07 2.5 07 1 8.50 1 8.50 4 54 54 54 1 8.50 1 1 8.50 1 1 8.50 1 1 8.50 1 1 8.50 1 1 1 8.50 1 1 1 8.50 1 1 1 1 1 1 1 1 1 1 1 1 1	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PW685 / I250ml PW685 / I250ml PW685 / I250ml 1 3 0 1 1 8225 1 1 8225 1 1 8225 1 1 1 8225 1 1 1 8225 1 1 1 825 1 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 825 1 1 1 825 1 1 1 1 1 1 1 1 1 1 1 1 1	MURAZECENC-L 1 1.33 ((#60-pa) 33 (#60-pa) 13 (#60-pa) PW685 / 1250ml 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection Net/Gross weight Dimension (L×W×H)	Nodel  Quantity Capacity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor model Motor Brand Quantity Speed Cuantity Speed Inlet Outlet Net/Gross Net Packing Loading quantity Capacity Comments Co	kW kW A d d mm dB dB dB dB dB dB dB dB dB dB dB dB dB	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600rsl 1 1.5 0 7 EHTISO3BLQ 1 8500 1 8500 1 8500 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 1 8500 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.75 (@60rps) 1.75 (@60rps) 0.75 (@60rps) 1.75 (@60rps) 0.75 (@60rps) 1.75 (@60rps) 0.75 (@60rps) 1.75	SVE220FLOMC-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 /460ml 1 2 0 0 1 2 0 7 0 1 8 50 59 49 0 33 80/95 125×370 <680 105×440 ×865	svezzoFLoMC-1 1 2.23 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 1 1 1 1 1 2.25 0 7 EHTSO3BLQ 1 8500 60 50 60 50 0 33 88/104 11 55370-803 1200-488×982 200-488×982	MVB33FBBAC 1 11.37(@60rps) 3.57(@00rps) 11 (@00rps) PW685 / 100ml Brushles 1 2.5 07 3 L B EHTS038L0 Pan 1 8500 Electronic e Plate hea 64 54 GR 11 0.333 0.333 97/117 1155-370-803 1200-488-9822	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1280ml 8 DC motor 1 8 DC motor 1 0 0 0 0 0 0 0 0 0 0 0 0 0	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 3 0 0 0 0 0 0 0 0 0 0 0 0 0	NVESSFERANC 1 1.37 (@60rpe) 3.57 (@60rpe) 11 (@60rpe) FW685 / 1000ml 2.5 07 2.5 07 1000ml 2.5 07 07 07 07 07 07 07 07 07 07	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PW685 / I250ml PW685 / I250ml COMPACT COMPACT PW685 / I250ml COMPACT COM	MURAZECEMC-L 1 1.33 ((#60-pa) 33 (#60-pa) 13 (#60-pa) PW685 / 1250ml 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection Net/Gross weight Dimension (L×W×H)	Nodel Audity Audity Capacity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor type Motor Brand Quantity Speed Color Inlet Outlet Net/Gross Net Packing Loading quantity (20GP/40GP) Color Color	kW kW A d d mm dB dB dB dB dB dB dB dB dB dB c c c	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600ml 1 1.5 0 7 EHTISO3BLQ 1 8500 566 46 0 0 3.3 0,531 0,531 0,561 1 125×370×680 105×440×865 1 15×430×680 105×440×865 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 15×40×40×855 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.75	SVE220FLOMC-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 /460ml 1 2 0 0 1 2 0 7 0 1 2 0 7 1 8 50 59 49 0 33 80/95 125×370×680 105×440×865	svezzoFLoMC-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 6.6 (@60rps) FW685 / 460ml 1 Hydrophilic 2.5 Ф7 EHTSO3BLQ 1 8500 60 50 60 50 0 33 88/104 1155×370×803 1200×488×982 200×488×982	NVESSFERAC 1 1.37(@60rps) 3.57(@60rps) 1 (@60rps) PW685/100ml Brushles 1 2.5 07 3 E EHTSO38L0 Pan 1 8500 Electronic e Plate hea 64 54 GR 1 0.33 97/117 135×370×803 1200×488×982 2400×488×982 1200×488×982 1000×488×98 1000×488×98 1000×488×98	MVB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1280ml s DC motor 1 s DC motor 1 control of a control of a control of a source of a control o	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 3 0 COMPACT FW685 / 1250ml 4 COMPACT C	NVESSFERANC 1 1.37 (@60rpe) 3.57 (@60rpe) 11 (@60rpe) FW685 / 100cml 2.5 07 EHTSO38LQ 1 8500 644 54 644 54 1 8500 1 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 1 8500 1 1 1 8500 1 1 1 8500 1 1 1 1 1 1 1 1 1 1 1 1 1	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PW685 / I250ml PW685 / I250ml CONTENTION	MURAZECENC-L 1 14.38 ((#60-pa) 33 ((#60-pa) 13 (#60-pa) 13 (#60-pa) PW685 / 1250ml 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0
Compressor Outdoor fan Air side heat exchanger Fan motor Throttle type Water side heat-exchanger Sound power level (Silent in Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection Water pipe connection Controller (Standard: LCD) Anti-UV cover Water resistance Water pipe connection Controller (Standard: LCD) Anti-UV cover Water resistance	Nodel Audity Audity Capacity Capacity Capacity Input Current Oil type / charge Motor type Number of fans Material Rows Tube size Fan type Motor type Motor type Motor type Motor Brand Quantity Speed Couliet Net/Gross Net Packing Loading quantity Cooling Heating EutW	kW kW A d d mm dB dB dB dB dB dB dB dB dB dB c C c c c	SV8172FNPMC 1 5.54 (@60rps) 5.1 (@60rps) 5.1 (@60rps) FW685 / 600rsl 1 1.5 0 7 EHTISO3BLO 1 8500 1 8500 1 8500 1 8500 1 1 8500 1 1 8500 1 1 8500 1 1 1 8500 1 1 1 8500 1 1 1 8500 1 1 1 1 1 1 1 1 1 1 1 1 1	SVBT22FNPMC 1 5.54 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.73 (@60rps) 1.75	SVE220FLOMC-1 1 710 (@60rps) 2.23 (@60rps) 2.23 (@60rps) FW685 /460mi 1 2 0 0 1 2 0 7 0 1 2 0 7 1 8 50 59 49 0 33 80/95 1 125×370×680 105×440×865	svezzoFLoMC-1 1 2.23 (@60rps) 2.23 (@60rps) 2.23 (@60rps) 1 1 1 1 1 2.25 0 7 EHTSO3BLQ 1 8500 60 50 60 50 88/104 11 55370-803 88/104 11 55370-803 1200-488×982 200-488×982 1	MVB33FBBAC 1 11.37(@60rps) 3.57(@00rps) 11 (@00rps) PW685 / 100ml Brushles 1 2.5 07 3 k 2.5 07 3 k B EHTS038L0 Pan 1 8500 Electronic e Plate hea 64 54 GR 11 0.333 97/117 115×370×803 1200×488×982 2400×488×982 1200×480×482 1200×488×982 1200×485×982 10	MUB42FCBMC-1 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1280ml s DC motor 1 s DC motor 1 s DC motor 1 c DC EHTSO3BLO assonic 1 8255 xpansion va t exchange 65 55 -LCO7 NO PX4 033 033 117/136 203×435×860 305×405×1040 to 43 to 35	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) FW685 / 1250ml 3 (@07 FW685 / 1250ml 4 (@60rps) 1 825 1 1 825 1 825 1 1 825 1 825 1 1 1 1 1 1 1 1 1 1 1 1 1	NVESSFERANC 1 1.37 (@60rpe) 3.57 (@60rpe) 11 (@60rpe) FW685 / 1000ml 2.5 07 EHTSO38LQ 1 8500 644 54 0333 97/117 1135×370×803 1200×488×982 240×488×982	MVB42FCBMC-L 1 14.38 (@60rps) 4.4 (@60rps) 13 (@60rps) PW685 / I250ml PW685 / I250ml 1 3 0 0 1 8 25 5 5 1 1 7 1 8 25 3 1 1 7 1 8 2 3 1 1 7 1 8 2 3 1 1 7 1 8 2 3 1 1 1 8 2 3 1 1 1 8 2 3 1 1 1 8 2 3 1 1 1 8 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1	MUR2FCBMC-L 1 14.38 (@60.pa) 4.4 (@60.pa) 13 (@60.pa) PW685 / 1250ml 1 3 0 0 0 0 1 1 8 25 1 1 8 25 3 1 1 7 1 8 25 3 1 1 7 1 8 25 3 1 1 7 1 8 25 3 1 1 1 8 25 1 1 1 8 25 1 1 1 8 25 1 1 1 1 8 25 1 1 1 1 1 8 25 1 1 1 1 1 1 1 1 1 1 1 1 1

4 kW

6 kW

8 kW

10 kW 12 kW

Note: 1. Outdoor air temperature 7°C DB ,85% R.H ; EWT 30°C,LWT 35°C

2. Outdoor air temperature 7°C DB ,85% R.H ; EWT 40°C,LWT 45°C

3. Outdoor air temperature 7°C DB ,85% R.H ; EWT 47°C,LWT 55°C

4. Outdoor air temperature 35°C DB ,85% R.H ; EWT 23°C,LWT 18°C

5.Outdoor air temperature 35°C DB ,85% R.H ; EWT 12°C,LWT 7°C

6.Test standard:EN12102-1



## **B** HEAT PUMP ENERGY

V-TAC Model name			4 kW	6 kW	8 kW	10 kW	12 kW	14 kW	16 kW	12 kW	14 kW	16 kW
Electrical back-up Heater	specs		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power supply		V / Ph / H			2	20-240 / 1	/ 50			;	380-415 / 3	
Refrigerant (R32) Factory cl	harge	kg						1.84	1.84		1.84	1.84
	Capacity	kW						14.3	16.1		14.3	16.1
Heating 1	Rated input	kW						3.1	3.57		3.1	3.57
	COP							4.61	4.51		4.61	4.51
	Capacity	kW						14.5	16		14.5	16
Heating 2	Rated input	kW						3.9	4.44		3.9	4.44
	COP							3.72	3.6		3.72	3.6
	Capacity	kW						13.8	16.0		13.8	16.0
Heating 3	Rated input	kW						4.6	5.52		4.6	5.52
	COP							3.0	2.9		3.0	2.9
	Capacity	kW						13.5	14.9		13.5	14.9
Cooling 4	Rated input	kW						3.75	4.38		3.75	4.38
-	EER							3.6	3.4		3.6	3.4
	Capacity	kW						12.7	14.0		12.7	14.0
Cooling 5	Rated input	kW						4.98	5.71		4.98	5.71
	EER							2.55	2.45		2.55	2.45
Seasonal space	LWT at 35°C							A+++	A+++		A+++	A+++
heating energy efficiency class	LWT at 55°C							A++	A++		A++	A++
	LWT at 35°C							4.75	4.63		4.75	4.63
SCOP	IWT at 55°C							3.45	3.42		3.45	3.42
	LWT at 7°C							4.86	4.69		4.86	4.69
SEER	LWT at 18°C							68	6.75		6.8	6.75
								30	30		30	30
MOP(Maximum overcurrent	r protection)	A						26	27		26	27
MCA(minimum circuit amps	5)	A						20	27		20	
Compressor	Туре						Twin rotar	y DC inverte	er			
Outdoor fan	Motor type						Brushles	is DC motor				
	Number of fans							1	1		1	1
Air side heat exchanger	Туре						Finn	ed tube				
Throttle type						1	Electronic e	expansion v	alve			
	Туре							Flare	Flare		Flare	Flare
	Liquid Dia .(OD)	mm						Φ9.52	Φ9.52		Φ9.52	Φ9.52
Piping connections	Gas Dia.(OD)	mm						Φ15.88	Φ15.88		Φ15.88	Φ15.88
	Min.pipe length	m						2	2		2	2
	Max.pipe length	m						30	30		30	30
Isntallation height	Outdoor unit above	m						20	20		20	20
amerence"	Outdoor unit below	m						20	20		20	20
Sound power level6		dB						65	68		65	68
Outdaan dimansian	Net dimension (W*H*D)	mm						1118*86	5*523		1118*80	55*523
Outdoor dimension	Packed dimension (W*H*D)	mm						1180*8	90*560		1180*8	90*560
Indexedian 1	Net dimension (W*H*D)	mm						456*82	20*270		456*8	20*270
indoor dimension	Packed dimension (W*H*D)	mm						960*5	25*345		960*5	25*345
Net/Gross weight		kg						97/108	97/108		97/108	97/108
Ū		°C						-5 t	o 43		-5 t	o 43
Operating temperature		°C						-25	to 35		-25	to 35
		°C						-25	to 43		-25	to 43

Note: 1. Outdoor air temperature 7°C DB ,85% R.H ; EWT 30°C,LWT 35°C

2. Outdoor air temperature 7°C DB ,85% R.H ; EWT 40°C,LWT 45°C

3. Outdoor air temperature 7°C DB ,85% R.H ; EWT 47°C,LWT 55°C

4. Outdoor air temperature 35°C DB ,85% R.H ; EWT 23°C,LWT 18°C

5.Outdoor air temperature 35°C DB ,85% R.H ; EWT 12°C,LWT 7°C

6.Test standard: EN12102-1



## **⊗≣** HEAT PUMP ENERGY

	Specif	ication - R134a Sanitary Hot Wate	er Heat Pump				
TECHNICAL DATA		AXHW-20a/200L	AXHW-20a/250L	AXHW-20a/300L			
Heating capacity	kW	2.02	2.02	2.02			
Power input	W	486	486	486			
COP	W/W	4.16	4.16	4.16			
Power supply	V/Ph/Hz		220-240/1/50				
Max Current	А		3.2 +6.8 (e-heater)				
Max leaving water temperature	°C		60				
Max. water temperature	°C		70				
Rated water yield	L/H		45				
Working temperature range	°C		-5~43				
Max. discharge pressure	bar		22				
Min. suction pressure	bar		6				
Compressor (Brand/Type/Model)		(	GMCC/Rotary/PJ125G1C-4DZDE	E			
Refrigerant type			R134a				
Fan motor (Type/W/RPM)			Asynchronous motor/80/1280				
Air flow	m3/h		450				
Duct diameter	mm	ا	177 (Fit flexible 180/200mm duct	)			
Max allowed pressure of tank	bar	10					
Inside body material of tank			SUS 304/316L				
Inner tank thickness(mm)		1.5mm					
Insulation material		Polyurethane					
Thickness of the tank insulation (mm)		45					
Outside tank material		galvanized steel					
Outside tank thickness(mm)		0.5					
Coating thickness of the tank cover (mm)		0.05					
Water tank Colour			white, silver				
Hot water outlet	inch	G 3/4					
Solar heat source inlet/outlet	inch	G 3/4					
Cold water inlet	inch	G 3/4					
Size of water drain	inch		G 3/4				
Condensed water outlet	inch		G 1/2				
Material of heat pump coil			Alumium(external coil)				
Size of heat pump coil (Diameter*Thickness*Length)	mm	φ9.52*0.91*55000					
Unit protection Indoor unit (IP xx)			IPX1				
Timer function included yes/no			Y				
Water tank Volume	L	200	250	300			
Net Dimensions	mm	φ560x1750	φ640x1765	φ640x1845			
Packing Dimensions with pallet	mm	629x629x1895	695x695x1989	695x695x1989			
Net Weight	Kg	90	94	97			
Gross Weight	Kg	94	98	101			
Noise level	dB(A)	46	46	46			
Loading quantity of 20GP		27	24	24			
Loading quantity of 40GP		54	51	51			
Loading quantity of 40HQ		54	51	51			

Note: Capacities and power inputs based on the following conditions: - Heating: Ambient temperature 20°C/15°C, Water temperature from 15°C to 55°C.



## **⊗≣** HEAT PUMP ENERGY

# DRAWING & DIMENSIONS

### **INNER UNIT**



1	Touch screen wire controller
2	Front panel
3	Left side panel
4	Plate heat exchanger
5	Safety valve
6	Water pressure sensor
7	Water tray
8	Bottom panel
9	Inverter heat pump
10	Right side panel
11	Electric control box cover
12	Electronic control assembly
13	Water flow switch
14	Electric heating assembly
15	Wall panel
16	Rear panel assembly
17	Expansion tank
18	Automatic exhaust valve
19	Cover





# An all-in-one solution for climate control

## HEAT PUMP ENERGY







**R32** refrigerant



A+++ Energy Class



Hybrid function



High efficiency even with low ambient temperatures

Low noise





Holiday Mode







Floor protection



