



# HRP

**Hermetic  
refrigerant  
pumps**



# HRP

## Hermetic refrigerant pump

HRP refrigerant pumps with integrated canned motor are chosen whenever a maintenance-free execution is needed or high operating pressures are required. They are suitable for nearly all refrigerants.



### Easy handling

WITT refrigerant pumps are designed solely for use in refrigeration systems and content:

- a integrated vent line,
- top connections for escaping of gas proportions,
- opportunities for easy oil draining as well as
- a broad operating range.

There is no need for additional piping such as motor cooling lines or pipes for  $Q_{min}$ -or  $Q_{max}$ -orifices. Furthermore the HRP may be installed suspended, so that there is sufficient space for a condensate drip pan underneath the pump.

### Reliable

The stator can withstand high design pressure of up to 40 bars and the stator oil filling provides additional protection for the stator windings. The good delivery properties of the HRP make sure the volume flow is not interrupted by varying pressures (which cannot be avoided during load changes at the compressor). The pump keeps delivering dependably.

### Maintenance-free

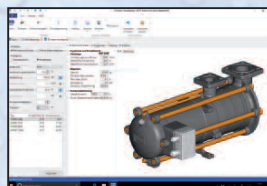
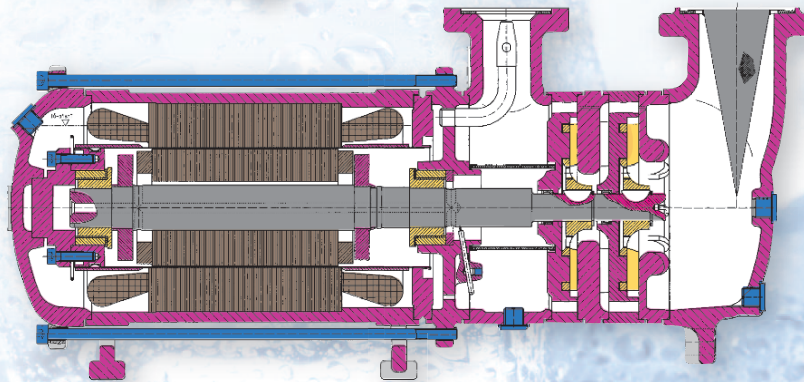
Hermetic refrigerant pumps do not require maintenance, but installation should be executed carefully to make sure there is always sufficient liquid refrigerant to lubricate the bearings and cool the motor. Too high gas intake, lack of refrigerant or operation against too high pressure will shorten a life time that is expected to be at least ten years.

### Availability

WITT HRP refrigerant pumps are delivered from stock.

### Easy selection

Volume flow and delivery head are sufficient to select your correct HRP, either with the selection program "WITT select" or at a glance with our diagram. The broad operating range makes it easy to find a suitable pump. Additional equipment is not necessary, we have already thought of everything.

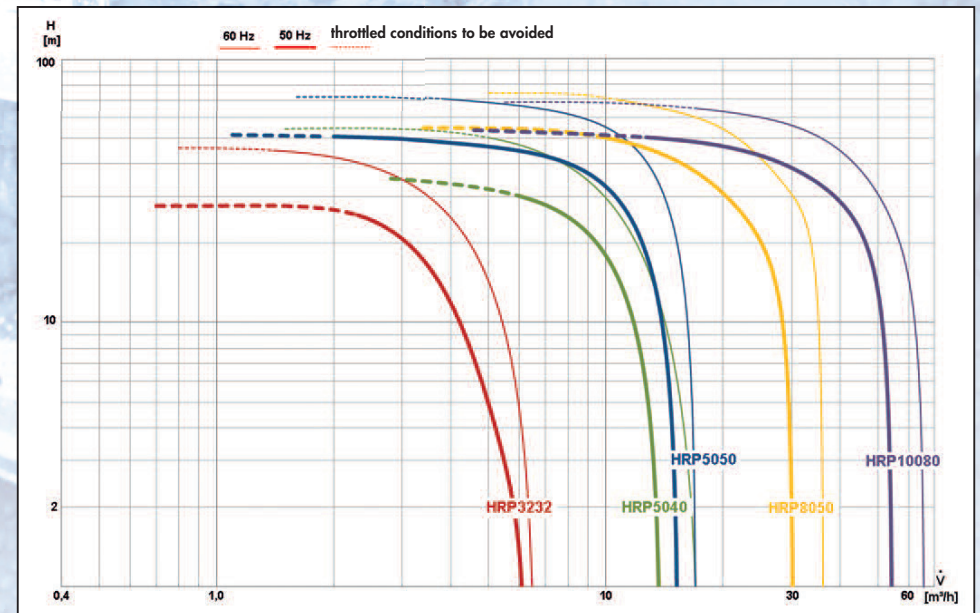


WITT	max. delivery height*	max. capacity*	suction-/delivery connection	PN <sub>max</sub>	material	weight**
	[m]	[m <sup>3</sup> /h]	[DN]	[bar]		[kg]
HRP3232	28/45	5,2/5,6	32/32	25/40/65	GGG	43
HRP5040	35/50	13,2/13,9	50/40	25/-	GGG	55
HRP5050	50/70	15/16,4	50/50	25/40	GGG	83
HRP8050	50/70	30/35	80/50	25/40	GGG	83
HRP10080	50/65	55/66	100/80	25/40	GGG	117

\* 50/60 Hz at 2900/3600 1/min \*\* with EA + ERA

### Accessories

- GF counter flanges
- EA stop valves suction and delivery side
- ERA stop/non-return valve on the delivery side
- Motor protection



## High-quality refrigeration components

- **HRP** Hermetic refrigerant pumps
- **GP** Open refrigerant pumps
- **HR & HS** High side float regulators
- **WP3HR** High side float regulators for heat pumps up to 65 bar
- **ECO** Economizer
- **BDP** Automatic oil recovery
- **NGX** Maximum level switch
- **HDB 3** Stainless steel oil drain vessel
- **HAD** High efficient separator
- Pumping stations
- **SAV** Standard-separator-evaporator-unit
- **DB** Pressure vessel units
- **NH<sub>3</sub>/CO<sub>2</sub>** Cascades



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