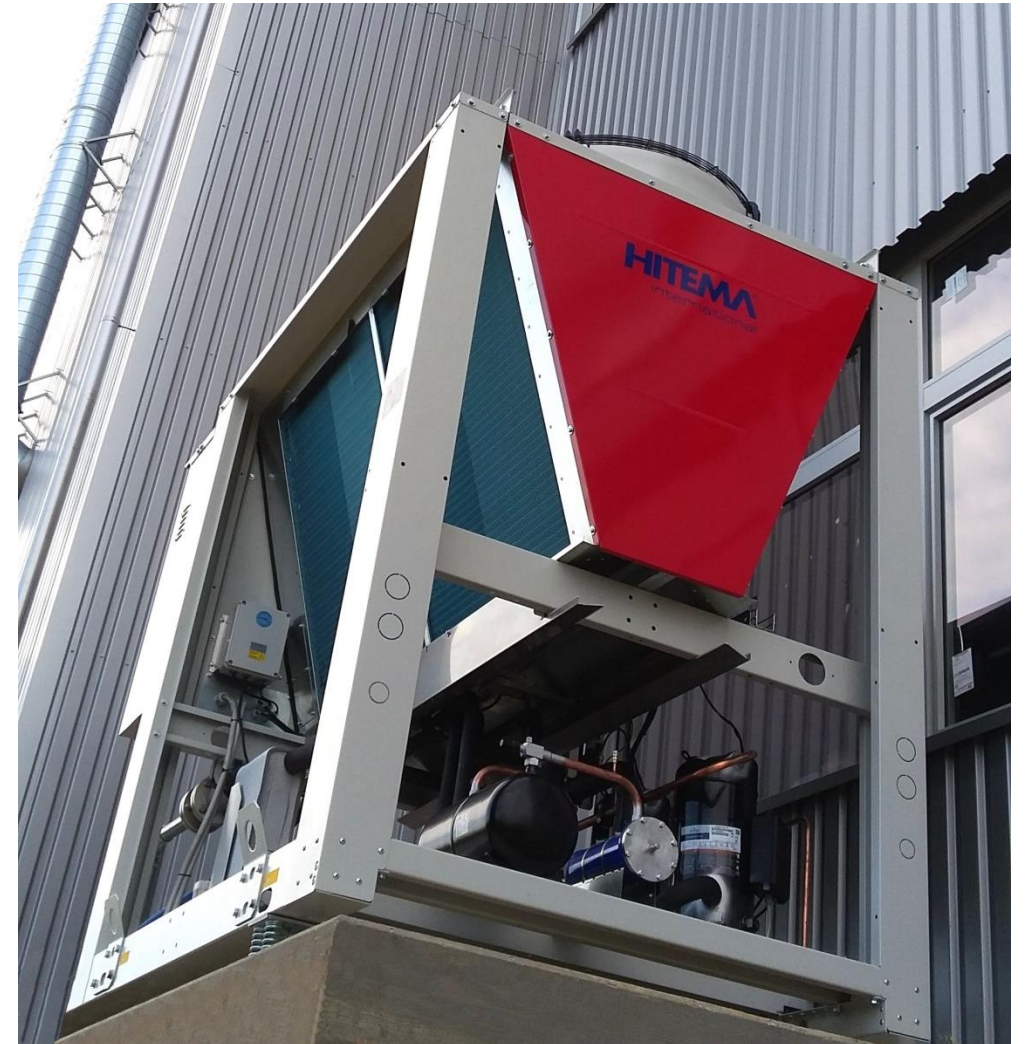


**NEW SBS-HP
SERIES**

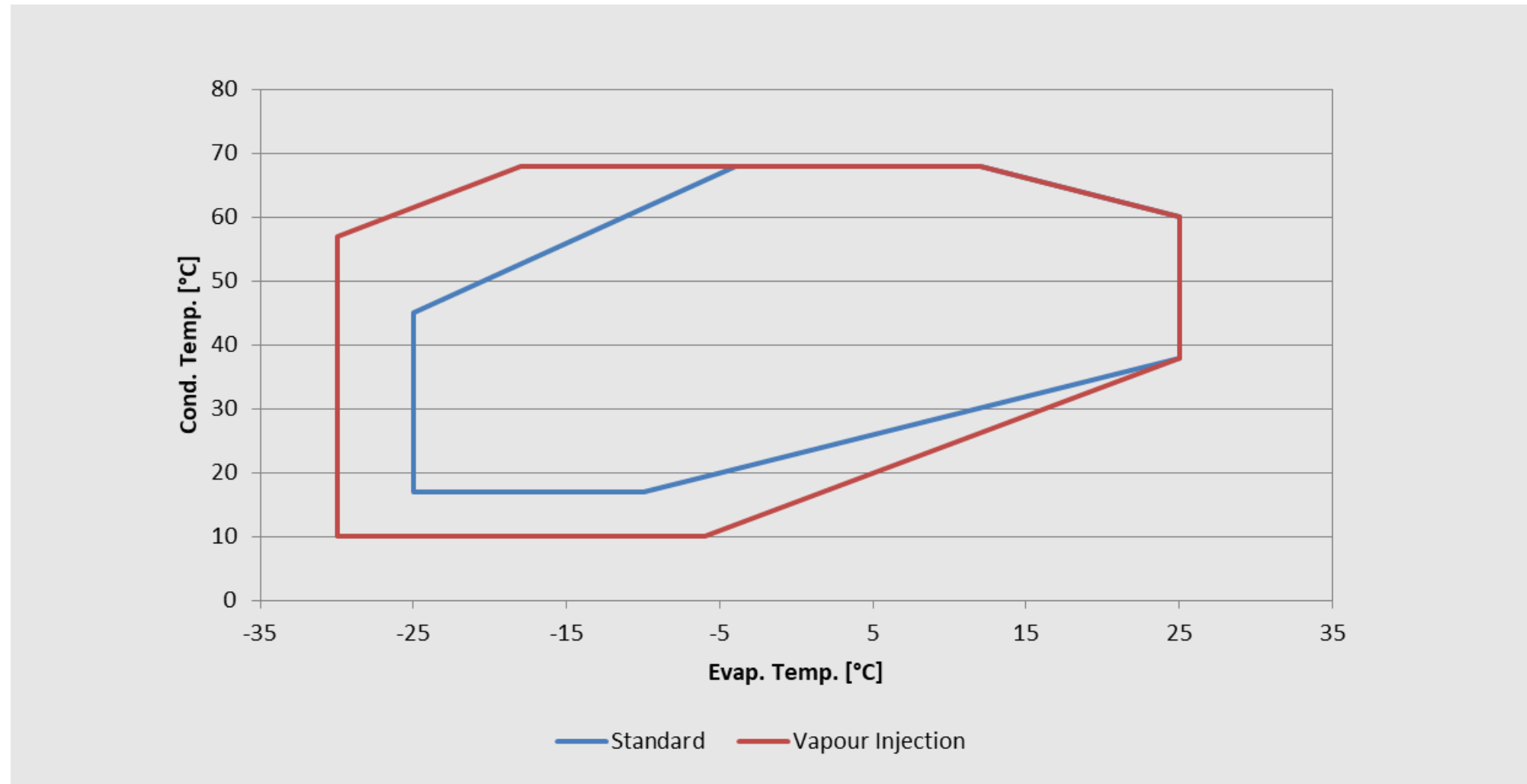
HITEMA[®]
international

WHY TO CHOOSE IT?

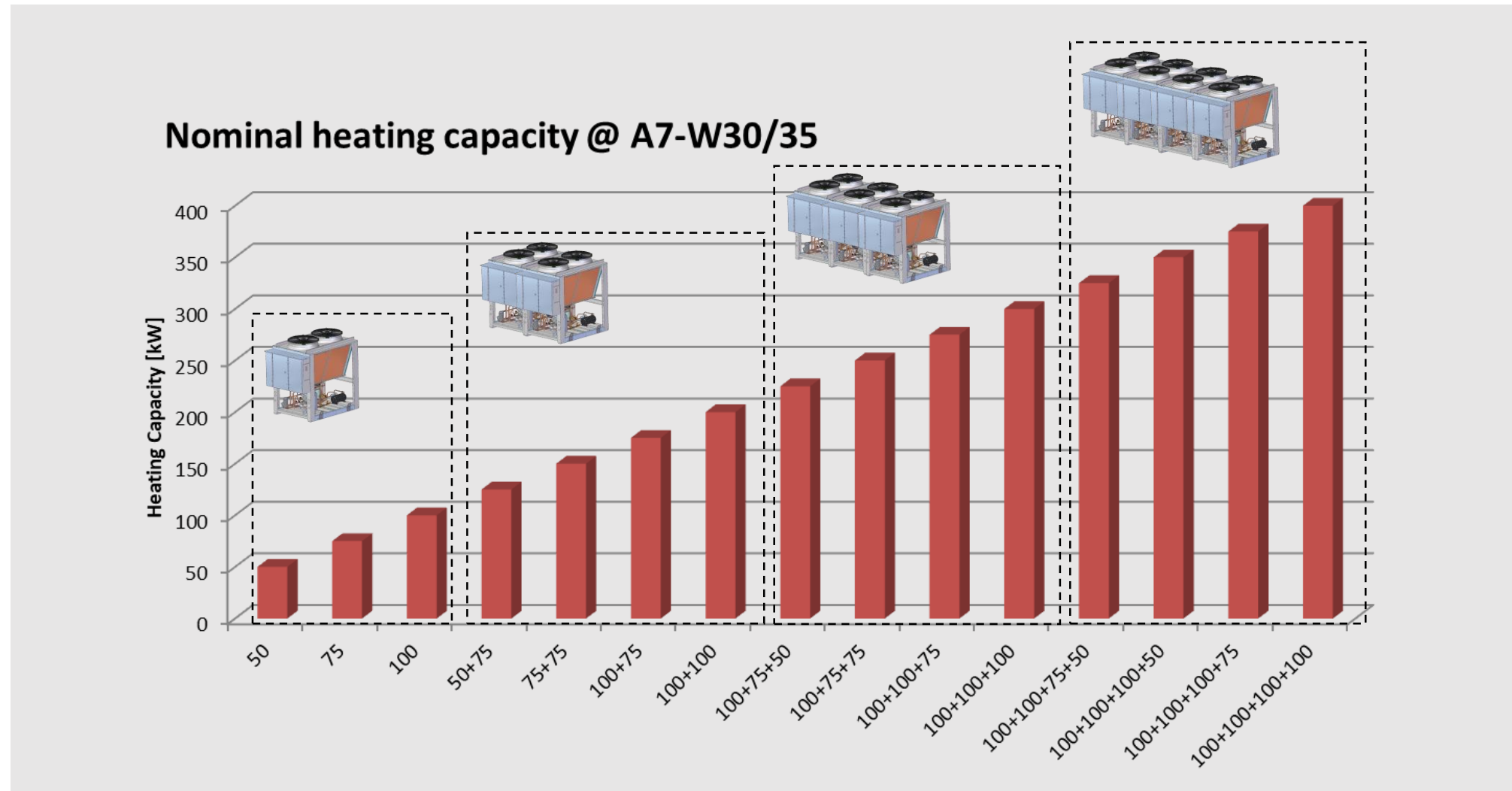
- ✔ New series of unit specifically designed for **HEAT PUMP WORKING MODE**
- ✔ Use the **MODULARITY** to increase the nominal capacity of the whole unit, based on well-designed models that can be hydraulically combined to obtain the project requirements
- ✔ **PCO5+ CONTROL** with master-slave functions in the multi modules installation
- ✔ **SIMPLIFIED MAINTENANCE/REPAIR** operations, only in the damaged module each module can be easily isolated from the others, which can continue to operate while the faulty module is repaired, in this manner costly production downtime can be avoided
- ✔ Already built installation can be **INCREASED IN CAPACITY** in case of modification of the energy demand



OPERATING ENVELOPE



NOMINAL HEATING CAPACITY



DESIGN TIPS

VERTICAL SCROLL COMPRESSORS IN TANDEM CONFIGURATION

- ✓ Two regulation steps for each basic model with **VAPOUR INJECTION TECHNOLOGY** to guarantee high water temperature production also in case of low ambient temperature
- ✓ **ACCURATE STUDY** of the vapour injection distribution lines
- ✓ Dedicated **CONTROLLER** for the vapour injection management connected with a NTC-sensor in the compressors head



DESIGN TIPS

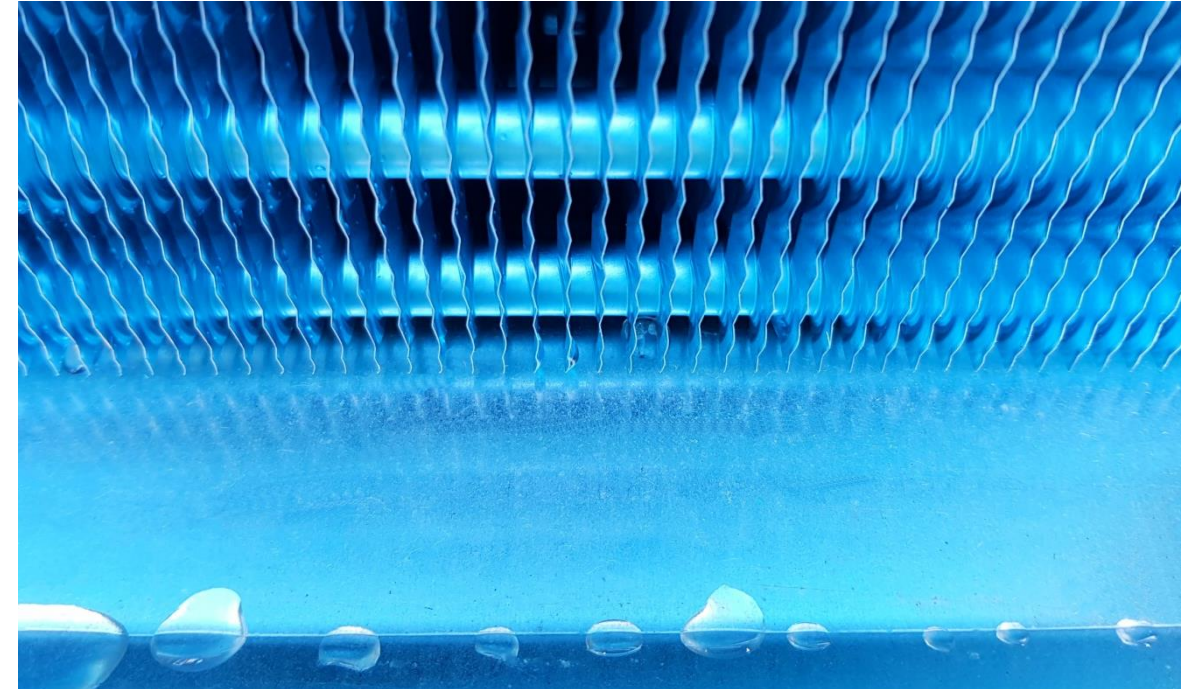
AIR EVAPORATORS

- ✓ Two regulation steps for each basic model with **VAPOUR INJECTION TECHNOLOGY** to guarantee high water temperature production also in case of low ambient temperature
- ✓ **ACCURATE STUDY** of the vapour injection distribution lines
- ✓ Dedicated **CONTROLLER** for the vapour injection management connected with a NTC-sensor in the compressors head

AND WHAT ABOUT THE FREEZE RISKS?

Reverse cycle defrost mode with optimized start/stop control as standard

"V" coils configuration to speed up the dripping phase;



DESIGN TIPS

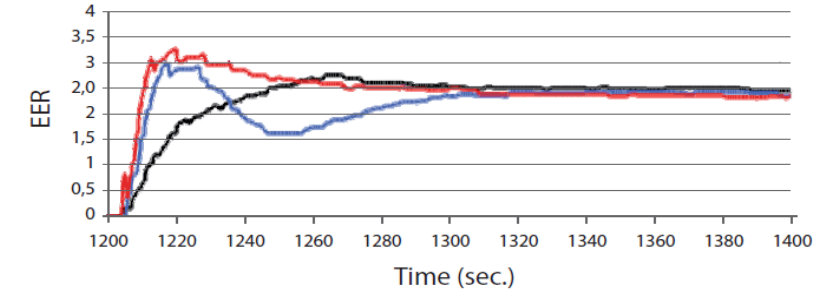
EXPANSION VALVE

- ✓ **ELECTRONIC EXPANSION VALVE (EEV)** in each model for a precisely SH control and reduction of start-up inefficiencies
- ✓ Possibility to improve the **SH CONTROL SOFTWARE FUNCTIONS**

CONDENSER

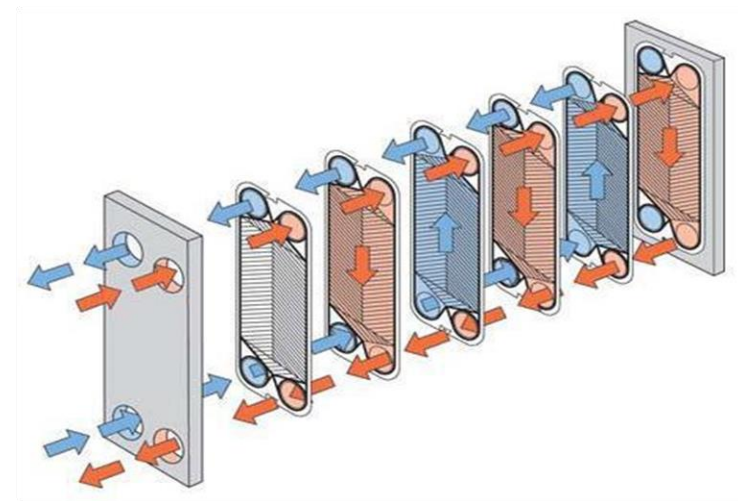
- ✓ **BRAZED HIGH QUALITY CONDENSER**, oversized designed to decrease the approach

Energy efficiency at start-up



- *electronic expansion valve*
- *thermostatic expansion valve with solenoid valve*
- *thermostatic expansion valve without solenoid valve*

Source: CAREL INDUSTRIES



DESIGN TIPS

NOISE REDUCTION

- ✓ **LOW NOISE VERSION (LNJ)** with compressors soundproofing +EC fans
- ✓ **SUPER LOW NOISE VERSION (SLN)** with acoustic isolated cabinet for refrigeration circuit, EC fans+AxiTop

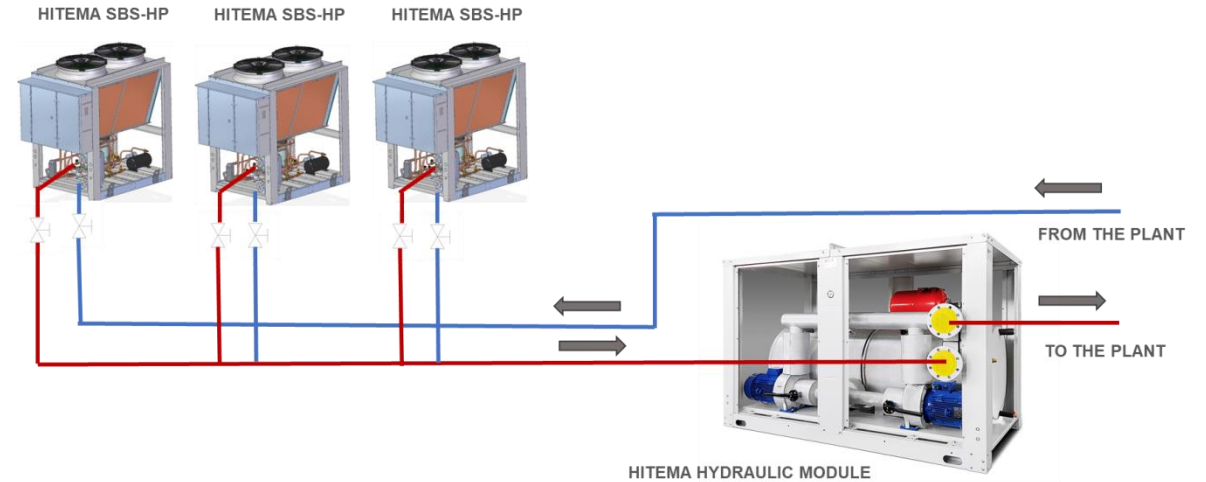
AND WHAT ABOUT REFRIGERANTS?

We use **R410A**
OTHER REFRIGERANTS UPON REQUEST



DATA SHEET

				SBSHP.50	SBSHP.75	SBSHP.100
Low temperatures EN 14511 Water 30/35°C	AIR 7°C	Heating capacity	kW	61,2	81,4	105,8
		Electric consumption	kW	16,3	21,2	26,2
		COP		3,75	3,84	4,04
	AIR 2°C	Heating capacity	kW	55,6	74	96,4
		Electric consumption	kW	16,4	21,2	26,2
		COP		3,39	3,49	3,68
	AIR -7°C	Heating capacity	kW	45,2	60,4	77,8
		Electric consumption	kW	16,5	21	26,1
		COP		2,74	2,88	2,98
	AIR -15°C	Heating capacity	kW	37,3	50	66,6
		Electric consumption	kW	16,4	20,9	25,9
		COP		2,27	2,39	2,57
Medium temperatures EN 14511 Water 40/45°C	AIR 7°C	Heating capacity	kW	61,2	82,4	106,4
		Electric consumption	kW	19,8	25,9	31,8
		COP		3,09	3,18	3,35
	AIR 2°C	Heating capacity	kW	55,8	75	97,4
		Electric consumption	kW	19,9	25,7	31,8
		COP		2,80	2,92	3,06
	AIR -7°C	Heating capacity	kW	45,8	61,8	81
		Electric consumption	kW	19,9	25,4	31,6
		COP		2,30	2,43	2,56
	AIR -15°C	Heating capacity	kW	38	51,4	68,2
		Electric consumption	kW	19,9	25,3	31,2
		COP		1,91	2,03	2,19
Water 12/7°C	AIR 35°C	Cooling capacity	kW	51,8	70,2	89,8
		Electric consumption	kW	19,7	20,7	31,1
		EER		2,63	3,39	2,89
Water 23/18°C	AIR 35°C	Cooling capacity	kW	68,4	91	114,4
		Electric consumption	kW	19,1	25,1	32,9
		EER		3,58	3,63	3,48
		Sound pressure Lp(A) @ 10 m	dB(A)	55		



MULTI UNITS CONFIGURATION

REFERENCES

MODEL: SBS-HP.100



City of Emmen
Switzerland

SBS-HP.100 for space heating and cooling of an industrial place with dedicated offices.
The unit communicates with the plant supervisor through digital input/output and modules connections.

Optionals:

- Soft starters
- Spring antivibrants
- Modbus connection
- Remote screen



ANY QUESTIONS?

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