

POPIS JEDNOTKY A TECHNICKÉ DÁTA

Technické údaje (pre modely 6÷13)

Kompaktné vyhotovenie pre vonkajšiu inštaláciu

| Model - S/HRCF | Unit | 6 | 8 | 9 | 11 | 13 |
|--|-------------------|------------------|--------|--------|-----------|--------|
| Cooling – chladenie | | | | | | |
| Nominálny chladiaci tep. výkon* | kW | 5.8 | 8.2 | 9.2 | 11 | 13 |
| Heating – vykurovanie | | | | | | |
| Nominálna vykurovací tep. výkon** | kW | 6.5 | 9.1 | 10.1 | 12.5 | 15.6 |
| Hermetický kompresor | | | | | | |
| Typ | / | Rotary | Scroll | | | |
| Nº počet kompresorov/systémov | nº | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Príkonný motor pri chladení* | kW | 1.9 | 2.7 | 3.1 | 3.4 | 4.3 |
| Príkonný motor pri kúrení** | kW | 2.1 | 2.8 | 3.3 | 3.6 | 4.6 |
| Axialný ventilátor | | | | | | |
| Prietok vzduchu | m ³ /h | 2860 | 3340 | 3810 | 4400 | 5550 |
| Počet x riadený príkon | nºxkW | 1x0.17 | 1x0.29 | 1x0.29 | 2x0.17 | 2x0.17 |
| Výmenník tepla hydronického okruhu – plate heat exchanger in the water circle | | | | | | |
| Typ | / | Doskový výmenník | | | | |
| Prietok vody | m ³ /h | 0.99 | 1.41 | 1.58 | 1.89 | 2.23 |
| Strata tlaku vo vodnom okruhu | kPa | 13 | 17 | 19 | 44 | 48 |
| Pripojenie vody | palec | 1" | 1" | 1" | 1" | 1" |
| Obehové čerpadlo hydronického okruhu vody vstavované – water pump | | | | | | |
| Príkonný | kW | 0.26 | 0.27 | 0.28 | 0.44 | 0.45 |
| Tlaková dopravná výška | kPa | 47 | 42 | 40 | 218 | 200 |
| Chladivo | | | | | | |
| Typ | / | R407c | | | | |
| Hmotnosť náplne | Kg | 2.4 | 3.6 | 3.8 | 4.0 | 4.4 |
| Elektrické napájanie – power supply | | | | | | |
| Napájací prúd | V/Ph/Hz | 230/1/50 | | | 400/3N/50 | |
| Max. príkon | kW | 2.64 | 3.51 | 3.96 | 4.41 | 6.53 |
| Max. prúd | A | 12.8 | 17.25 | 19.65 | 10.82 | 13.72 |
| Max. rozbehový prúd | A | 57.8 | 75.95 | 103.65 | 52.02 | 73.02 |
| Vonkajšie rozmery jednotky | | | | | | |
| Dĺžka | mm | 1300 | 1300 | 1300 | 1300 | 1300 |
| Šírka | mm | 460 | 460 | 460 | 560 | 560 |
| Výška | mm | 975 | 975 | 975 | 1275 | 1275 |
| Čistá hmotnosť | Kg | 134 | 136 | 138 | 146 | 148 |
| Úroveň hluku *** | dB(A) | 50 | 55 | 56 | 60 | 60 |
| Objem vnútorného bojlera | lit. | 15 | 15 | 15 | 18 | 18 |

* Teplota priestoru 35°C, teplota vody na vstupe/výstupe výparníka 7/12 °C;

** pri teplote vonkajšieho vzduchu 7°C DB, 6°C WB; teplota vody na vstupe/výstupe kondensora 40/45°C;

*** Úroveň hluku meraná vo vzdialenosti 1 m a vo výške 1,5 m nad zemou v poli na strane ventilátora.

POPIS JEDNOTKY A TECHNICKÉ DÁTA

Technické údaje (pre modely 15÷30)

| Model | S/HRCF | Unit | 15 | 19 | 25 | 30 |
|---------------------------------|--------|-------------------|-----------|--------|--------|--------|
| Cooling | | | | | | |
| Nominal cooling capacity* | | kW | 14.7 | 19.0 | 24.1 | 28.8 |
| Heating | | | | | | |
| Nominal heating capacity** | | kW | 16.4 | 21.2 | 27.8 | 32.6 |
| Hermetic compressor | | | | | | |
| Type | / | Scroll | | | | |
| Nº of compressor/system | nº | | 1/1 | 1/1 | 1/1 | 1/1 |
| Cooling power input * | | kW | 5.0 | 6.3 | 8.1 | 9.9 |
| Heating power input ** | | kW | 5.5 | 7.1 | 9.2 | 11.3 |
| Axial fan | | | | | | |
| Airflow | | m ³ /h | 6700 | 8200 | 10900 | 12500 |
| Quantity x Rated power | | nºxkW | 2x0.17 | 1x0.40 | 1x0.55 | 1x0.55 |
| Evaporator | | | | | | |
| Type | / | | | | | |
| Water flow | | m ³ /h | 2.57 | 3.43 | 4.29 | 5.15 |
| Water side pressure drop | | kPa | 56 | 26 | 30 | 55 |
| Water connection size | | inch | 1" | 1½" | 1½" | 1½" |
| Water pump | | | | | | |
| Power input | | kW | 0.46 | 0.66 | 0.74 | 0.8 |
| Available pressure head | | kPa | 181 | 189 | 169 | 147 |
| Refrigerant | | | | | | |
| Type | / | R407c | | | | |
| Charge quantity | | Kg | 5.3 | 7.5 | 8 | 8.5 |
| Electrical | | | | | | |
| Power supply | | V/Ph/Hz | 400/3N/50 | | | |
| Max. power input | | kW | 6.53 | 7.4 | 9.52 | 11.28 |
| Max. input current | | A | 13.7 | 18.5 | 23 | 25.1 |
| Max. starting current | | A | 73 | 98.4 | 129.2 | 146.1 |
| Overall dimensions | | | | | | |
| Length | | mm | 1300 | 1200 | 1300 | 1300 |
| Width | | mm | 560 | 1000 | 1100 | 1100 |
| Height | | mm | 1275 | 1100 | 1100 | 1100 |
| Net weight | | Kg | 150 | 222 | 248 | 251 |
| Sound pressure level *** | | dB(A) | 62 | 65 | 65 | 65 |
| Water storage tank | | l | 18 | 75 | 75 | 75 |

* Ambient air temperature 35°C, evaporator water temperature inlet/outlet 12/7°C;

** Ambient air temperature 7°C DB, 6°C WB; condenser water temperature inlet/outlet 40/45°C;

*** Sound pressure level measured at distance of 1 m and a height of 1.5 m above the ground in a free field (fan side)

POPIS JEDNOTKY A TECHNICKÉ DÁTA

Výkon pri chladení (pre modely 6÷13)

| MOD. | T _o (°C) | Vonkajšia teplota - Ambient temperature [°C] | | | | | | | | | | | | | |
|------|------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 27 | | 30 | | 32 | | 35 | | 37 | | 40 | | 45 | |
| | | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e | kW _f | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e | kW _f |
| 6 | 5 | 6.05 | 1.33 | 5.72 | 1.52 | 5.51 | 1.68 | 5.34 | 1.83 | 5.11 | 1.93 | 4.94 | 2.04 | 4.54 | 2.29 |
| | 6 | 6.28 | 1.36 | 5.93 | 1.55 | 5.74 | 1.71 | 5.56 | 1.86 | 5.35 | 1.97 | 5.16 | 2.09 | 4.77 | 2.34 |
| | 7 | 6.46 | 1.39 | 6.15 | 1.57 | 5.96 | 1.75 | 5.8 | 1.9 | 5.61 | 2.01 | 5.43 | 2.12 | 5.06 | 2.38 |
| | 8 | 6.71 | 1.4 | 6.39 | 1.59 | 6.19 | 1.77 | 6.04 | 1.92 | 5.84 | 2.03 | 5.64 | 2.15 | 5.26 | 2.41 |
| | 9 | 6.92 | 1.42 | 6.62 | 1.61 | 6.43 | 1.78 | 6.3 | 1.94 | 6.1 | 2.05 | 5.91 | 2.17 | 5.56 | 2.43 |
| | 10 | 7.2 | 1.43 | 6.89 | 1.62 | 6.68 | 1.8 | 6.55 | 1.96 | 6.36 | 2.07 | 6.15 | 2.19 | 5.78 | 2.46 |
| 8 | 5 | 8.57 | 1.89 | 8.07 | 2.15 | 7.79 | 2.38 | 7.54 | 2.59 | 7.23 | 2.74 | 6.98 | 2.9 | 6.42 | 3.25 |
| | 6 | 8.88 | 1.93 | 8.39 | 2.2 | 8.12 | 2.43 | 7.87 | 2.64 | 7.56 | 2.8 | 7.29 | 2.96 | 6.76 | 3.33 |
| | 7 | 9.14 | 1.98 | 8.7 | 2.24 | 8.42 | 2.49 | 8.2 | 2.7 | 7.93 | 2.85 | 7.67 | 3.03 | 7.15 | 3.39 |
| | 8 | 9.47 | 2 | 9.03 | 2.27 | 8.74 | 2.51 | 8.54 | 2.73 | 8.25 | 2.88 | 7.98 | 3.06 | 7.43 | 3.42 |
| | 9 | 9.79 | 2.02 | 9.37 | 2.29 | 9.08 | 2.54 | 8.91 | 2.76 | 8.64 | 2.91 | 8.37 | 3.09 | 7.86 | 3.46 |
| | 10 | 10.18 | 2.03 | 9.75 | 2.3 | 9.44 | 2.56 | 9.26 | 2.78 | 8.98 | 2.94 | 8.7 | 3.11 | 8.18 | 3.49 |
| 9 | 5 | 9.61 | 2.17 | 9.06 | 2.47 | 8.73 | 2.74 | 8.47 | 2.97 | 8.11 | 3.15 | 7.83 | 3.34 | 7.2 | 3.74 |
| | 6 | 9.96 | 2.22 | 9.41 | 2.53 | 9.11 | 2.8 | 8.82 | 3.04 | 8.49 | 3.21 | 8.19 | 3.4 | 7.58 | 3.81 |
| | 7 | 10.26 | 2.26 | 9.76 | 2.57 | 9.46 | 2.85 | 9.2 | 3.1 | 8.9 | 3.27 | 8.6 | 3.47 | 8.03 | 3.89 |
| | 8 | 10.62 | 2.29 | 10.13 | 2.6 | 9.81 | 2.88 | 9.59 | 3.13 | 9.26 | 3.31 | 8.96 | 3.51 | 8.33 | 3.93 |
| | 9 | 10.98 | 2.31 | 10.51 | 2.63 | 10.19 | 2.91 | 9.99 | 3.16 | 9.69 | 3.35 | 9.38 | 3.54 | 8.81 | 3.97 |
| | 10 | 11.42 | 2.33 | 10.92 | 2.65 | 10.6 | 2.94 | 10.39 | 3.19 | 10.08 | 3.37 | 9.76 | 3.57 | 9.17 | 4.01 |
| 11 | 5 | 11.49 | 2.38 | 10.83 | 2.71 | 10.44 | 3 | 10.12 | 3.26 | 9.71 | 3.45 | 9.37 | 3.66 | 8.61 | 4.1 |
| | 6 | 11.91 | 2.43 | 11.26 | 2.76 | 10.89 | 3.07 | 10.55 | 3.33 | 10.15 | 3.52 | 9.79 | 3.73 | 9.06 | 4.18 |
| | 7 | 12.27 | 2.48 | 11.66 | 2.82 | 11.31 | 3.13 | 11 | 3.4 | 10.64 | 3.6 | 10.29 | 3.81 | 9.59 | 4.27 |
| | 8 | 12.71 | 2.51 | 12.11 | 2.85 | 11.73 | 3.16 | 11.46 | 3.43 | 11.07 | 3.63 | 10.71 | 3.84 | 9.97 | 4.31 |
| | 9 | 13.13 | 2.53 | 12.56 | 2.88 | 12.18 | 3.19 | 11.94 | 3.47 | 11.59 | 3.66 | 11.22 | 3.88 | 10.54 | 4.35 |
| | 10 | 13.65 | 2.56 | 13.06 | 2.91 | 12.67 | 3.22 | 12.42 | 3.5 | 12.04 | 3.71 | 11.66 | 3.93 | 10.97 | 4.39 |
| 13 | 5 | 13.58 | 3.02 | 12.8 | 3.42 | 12.34 | 3.8 | 11.96 | 4.12 | 11.47 | 4.36 | 11.07 | 4.63 | 10.17 | 5.18 |
| | 6 | 14.08 | 3.08 | 13.31 | 3.5 | 12.87 | 3.88 | 12.47 | 4.21 | 11.99 | 4.45 | 11.57 | 4.72 | 10.71 | 5.29 |
| | 7 | 14.5 | 3.14 | 13.78 | 3.57 | 13.36 | 3.96 | 13 | 4.3 | 12.57 | 4.55 | 12.15 | 4.82 | 11.34 | 5.4 |
| | 8 | 15.02 | 3.17 | 14.32 | 3.61 | 13.86 | 4 | 13.55 | 4.34 | 13.08 | 4.59 | 12.65 | 4.87 | 11.78 | 5.45 |
| | 9 | 15.52 | 3.2 | 14.85 | 3.64 | 14.4 | 4.04 | 14.11 | 4.39 | 13.69 | 4.63 | 13.25 | 4.91 | 12.46 | 5.51 |
| | 10 | 16.14 | 3.23 | 15.44 | 3.68 | 14.97 | 4.08 | 14.68 | 4.43 | 14.24 | 4.68 | 13.78 | 4.96 | 12.95 | 5.57 |

kW_f: Výkon pri chladení - Cooling capacity [kW]

kW_e: Príkon kompresora - Compressor power input [kW]

To: Teplota vody na výstupe výparníka - Evaporator leaving water temperature e [°C]*

*Rozdiel teplôt na vstupe/výstupe výparníka - inlet/outlet evaporator water temperature difference: 5 °C

POPIS JEDNOTKY A TECHNICKÉ DÁTA

Výkon pri chladení (pre modely 15 ÷ 30)

| MOD. | T _o (° C) | Ambient temperature [° C] | | | | | | | | | | | | | |
|------|-------------------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | | 27 | | 30 | | 32 | | 35 | | 37 | | 40 | | 45 | |
| | | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e | kW _f | kW _e |
| 15 | 5 | 15.34 | 3.5 | 14.49 | 4 | 13.97 | 4.41 | 13.54 | 4.8 | 12.95 | 5.07 | 12.53 | 5.37 | 11.52 | 6.03 |
| | 6 | 15.93 | 3.58 | 15.04 | 4.07 | 14.55 | 4.51 | 14.09 | 4.9 | 13.57 | 5.17 | 13.08 | 5.49 | 12.1 | 6.15 |
| | 7 | 16.38 | 3.65 | 15.59 | 4.14 | 15.1 | 4.61 | 14.7 | 5 | 14.21 | 5.29 | 13.75 | 5.59 | 12.83 | 6.27 |
| | 8 | 17 | 3.68 | 16.2 | 4.19 | 15.68 | 4.66 | 15.31 | 5.05 | 14.79 | 5.34 | 14.3 | 5.66 | 13.32 | 6.35 |
| | 9 | 17.55 | 3.73 | 16.78 | 4.24 | 16.29 | 4.68 | 15.96 | 5.1 | 15.47 | 5.39 | 14.98 | 5.71 | 14.09 | 6.4 |
| | 10 | 18.25 | 3.77 | 17.46 | 4.26 | 16.94 | 4.73 | 16.6 | 5.15 | 16.11 | 5.44 | 15.59 | 5.76 | 14.64 | 6.47 |
| 19 | 5 | 19.85 | 4.41 | 18.7 | 5.02 | 18.04 | 5.56 | 17.47 | 6.05 | 16.76 | 6.39 | 16.18 | 6.77 | 14.87 | 7.58 |
| | 6 | 20.59 | 4.5 | 19.44 | 5.13 | 18.81 | 5.67 | 18.23 | 6.17 | 17.52 | 6.53 | 16.89 | 6.91 | 15.66 | 7.76 |
| | 7 | 21.19 | 4.61 | 20.15 | 5.22 | 19.52 | 5.81 | 19 | 6.3 | 18.37 | 6.66 | 17.77 | 7.07 | 16.57 | 7.92 |
| | 8 | 21.95 | 4.66 | 20.91 | 5.29 | 20.26 | 5.85 | 19.79 | 6.37 | 19.11 | 6.73 | 18.48 | 7.13 | 17.22 | 7.99 |
| | 9 | 22.69 | 4.7 | 21.71 | 5.33 | 21.05 | 5.92 | 20.64 | 6.44 | 20.01 | 6.8 | 19.38 | 7.2 | 18.21 | 8.08 |
| | 10 | 23.59 | 4.75 | 22.58 | 5.38 | 21.87 | 5.96 | 21.46 | 6.48 | 20.8 | 6.86 | 20.15 | 7.27 | 18.95 | 8.15 |
| 25 | 5 | 25.18 | 5.67 | 23.72 | 6.46 | 22.88 | 7.15 | 22.18 | 7.77 | 21.24 | 8.22 | 20.52 | 8.72 | 18.85 | 9.77 |
| | 6 | 26.08 | 5.79 | 24.65 | 6.6 | 23.87 | 7.31 | 23.11 | 7.93 | 22.23 | 8.39 | 21.45 | 8.89 | 19.85 | 9.96 |
| | 7 | 26.87 | 5.91 | 25.56 | 6.72 | 24.77 | 7.46 | 24.1 | 8.1 | 23.31 | 8.55 | 22.53 | 9.08 | 21.04 | 10.17 |
| | 8 | 27.83 | 5.98 | 26.55 | 6.79 | 25.7 | 7.53 | 25.12 | 8.17 | 24.25 | 8.65 | 23.46 | 9.17 | 21.83 | 10.27 |
| | 9 | 28.76 | 6.03 | 27.54 | 6.86 | 26.69 | 7.6 | 26.17 | 8.27 | 25.38 | 8.74 | 24.57 | 9.24 | 23.08 | 10.36 |
| | 10 | 29.93 | 6.1 | 28.62 | 6.93 | 27.77 | 7.67 | 27.22 | 8.34 | 26.4 | 8.81 | 25.56 | 9.34 | 24.01 | 10.48 |
| 30 | 5 | 30.08 | 6.93 | 28.35 | 7.9 | 27.35 | 8.74 | 26.48 | 9.5 | 25.42 | 10.05 | 24.52 | 10.64 | 22.54 | 11.93 |
| | 6 | 31.18 | 7.08 | 29.48 | 8.04 | 28.5 | 8.93 | 27.61 | 9.7 | 26.57 | 10.25 | 25.62 | 10.87 | 23.72 | 12.18 |
| | 7 | 32.13 | 7.23 | 30.52 | 8.22 | 29.6 | 9.11 | 28.8 | 9.9 | 27.85 | 10.47 | 26.93 | 11.09 | 25.12 | 12.42 |
| | 8 | 33.28 | 7.3 | 31.71 | 8.29 | 30.7 | 9.21 | 30.02 | 10 | 28.98 | 10.57 | 28.03 | 11.19 | 26.1 | 12.55 |
| | 9 | 34.38 | 7.38 | 32.9 | 8.39 | 31.89 | 9.28 | 31.26 | 10.1 | 30.34 | 10.67 | 29.36 | 11.31 | 27.58 | 12.67 |
| | 10 | 35.75 | 7.45 | 34.2 | 8.46 | 33.16 | 9.38 | 32.51 | 10.2 | 31.53 | 10.79 | 30.52 | 11.43 | 28.71 | 12.8 |

kW_f: Cooling capacity [kW]

kW_e: Compressor power input [kW]

T_o: Evaporator leaving water temperature [°C]*

*inlet/outlet evaporator water temperature difference: 5°C

POPIS JEDNOTKY A TECHNICKÉ DATA

Výkon pri vykurovaní (pre modely 6 ÷ 13)

| MODEL | T _a | RH | TEPLOTA VODY NA VSTUPE/VÝSTUPE KONDENZORA [°C] | | | | | | | |
|-------|----------------|----|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | [°C] | % | 30/35 | | 35/40 | | 40/45 | | 45/50 | |
| | | | kW _r | kW _e | kW _r | kW _e | kW _r | kW _e | kW _r | kW _e |
| 6 | -12 | 90 | 4.1 | 1.5 | 3.98 | 1.68 | 3.73 | 1.75 | --- | --- |
| | -8 | 90 | 4.51 | 1.52 | 4.43 | 1.7 | 4.26 | 1.82 | 4.02 | 1.85 |
| | -4 | 90 | 4.98 | 1.55 | 4.93 | 1.74 | 4.83 | 1.89 | 4.68 | 2 |
| | 0 | 90 | 5.51 | 1.59 | 5.47 | 1.79 | 5.41 | 1.96 | 5.33 | 2.12 |
| | 4 | 75 | 6.1 | 1.64 | 6.06 | 1.84 | 6.03 | 2.04 | 5.98 | 2.23 |
| | 7 | 75 | 6.58 | 1.69 | 6.54 | 1.89 | 6.5 | 2.1 | 6.46 | 2.31 |
| | 15 | 70 | 8.03 | 1.84 | 7.94 | 2.06 | 7.84 | 2.27 | 7.72 | 2.46 |
| | 20 | 70 | 9.05 | 1.96 | 8.91 | 2.19 | 8.72 | 2.38 | 8.5 | 2.53 |
| 8 | -12 | 90 | 5.74 | 2 | 5.58 | 2.24 | 5.22 | 2.33 | --- | --- |
| | -8 | 90 | 6.32 | 2.02 | 6.21 | 2.27 | 5.97 | 2.42 | 5.62 | 2.47 |
| | -4 | 90 | 6.97 | 2.06 | 6.9 | 2.32 | 6.76 | 2.52 | 6.55 | 2.66 |
| | 0 | 90 | 7.71 | 2.12 | 7.66 | 2.38 | 7.58 | 2.62 | 7.46 | 2.83 |
| | 4 | 75 | 8.54 | 2.19 | 8.49 | 2.46 | 8.44 | 2.72 | 8.37 | 2.98 |
| | 7 | 75 | 9.21 | 2.25 | 9.15 | 2.53 | 9.1 | 2.8 | 9.05 | 3.07 |
| | 15 | 70 | 11.24 | 2.46 | 11.11 | 2.75 | 10.97 | 3.02 | 10.81 | 3.28 |
| | 20 | 70 | 12.68 | 2.62 | 12.48 | 2.92 | 12.21 | 3.18 | 11.89 | 3.37 |
| 9 | -12 | 90 | 6.37 | 2.35 | 6.19 | 2.64 | 5.8 | 2.75 | --- | --- |
| | -8 | 90 | 7.01 | 2.38 | 6.89 | 2.68 | 6.63 | 2.85 | 6.24 | 2.91 |
| | -4 | 90 | 7.74 | 2.43 | 7.66 | 2.73 | 7.5 | 2.97 | 7.27 | 3.14 |
| | 0 | 90 | 8.55 | 2.5 | 8.5 | 2.81 | 8.41 | 3.08 | 8.28 | 3.33 |
| | 4 | 75 | 9.47 | 2.58 | 9.42 | 2.9 | 9.36 | 3.2 | 9.29 | 3.51 |
| | 7 | 75 | 10.22 | 2.65 | 10.16 | 2.98 | 10.1 | 3.3 | 10.04 | 3.62 |
| | 15 | 70 | 12.47 | 2.9 | 12.33 | 3.24 | 12.18 | 3.56 | 12 | 3.87 |
| | 20 | 70 | 14.07 | 3.08 | 13.85 | 3.44 | 13.55 | 3.74 | 13.2 | 3.98 |
| 11 | -12 | 90 | 7.89 | 2.57 | 7.66 | 2.88 | 7.18 | 3 | --- | --- |
| | -8 | 90 | 8.68 | 2.6 | 8.53 | 2.92 | 8.2 | 3.11 | 7.73 | 3.18 |
| | -4 | 90 | 9.58 | 2.65 | 9.48 | 2.98 | 9.29 | 3.24 | 9 | 3.42 |
| | 0 | 90 | 10.59 | 2.73 | 10.53 | 3.06 | 10.41 | 3.36 | 10.25 | 3.64 |
| | 4 | 75 | 11.73 | 2.82 | 11.66 | 3.16 | 11.59 | 3.5 | 11.5 | 3.83 |
| | 7 | 75 | 12.65 | 2.89 | 12.58 | 3.25 | 12.5 | 3.6 | 12.43 | 3.95 |
| | 15 | 70 | 15.44 | 3.16 | 15.26 | 3.54 | 15.08 | 3.89 | 14.85 | 4.22 |
| | 20 | 70 | 17.41 | 3.36 | 17.14 | 3.75 | 16.78 | 4.08 | 16.34 | 4.34 |
| 13 | -12 | 90 | 9.84 | 3.28 | 9.56 | 3.68 | 8.95 | 3.83 | --- | --- |
| | -8 | 90 | 10.83 | 3.32 | 10.64 | 3.73 | 10.23 | 3.98 | 9.64 | 4.06 |
| | -4 | 90 | 11.95 | 3.39 | 11.82 | 3.81 | 11.59 | 4.14 | 11.23 | 4.37 |
| | 0 | 90 | 13.21 | 3.48 | 13.14 | 3.91 | 12.99 | 4.3 | 12.79 | 4.65 |
| | 4 | 75 | 14.63 | 3.6 | 14.55 | 4.04 | 14.46 | 4.47 | 14.35 | 4.89 |
| | 7 | 75 | 15.79 | 3.7 | 15.69 | 4.15 | 15.6 | 4.6 | 15.51 | 5.05 |
| | 15 | 70 | 19.27 | 4.04 | 19.05 | 4.52 | 18.81 | 4.97 | 18.53 | 5.4 |
| | 20 | 70 | 21.73 | 4.3 | 21.39 | 4.8 | 20.94 | 5.22 | 20.39 | 5.54 |

kW_r: Tepelný výkon pri vykurovaní - Heating capacity [kW]

kW_e: Príkion kompresora - Compressors power input [kW]

T_a: Teplota vzduchu na vstupe do výparníka - Evaporator inlet air temperature dry bulb [°C]

RH: Relatívna vlhkosť vzduchu na vstupe do výparníka - Evaporator inlet air relative humidity [%]

UNIT DESCRIPTION AND TECHNICAL DATA

Výkon pri vykurovaní (modely 15 ÷ 30)

| MODEL | T _a | RH | CONDENSER INLET/OUTLET WATER TEMPERATURE [°C] | | | | | | | |
|-------|----------------|----|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | [°C] | % | 30/35 | | 35/40 | | 40/45 | | 45/50 | |
| | | | kW _r | kW _e | kW _r | kW _e | kW _r | kW _e | kW _r | kW _e |
| 15 | -12 | 90 | 10.35 | 3.92 | 10.05 | 4.4 | 9.41 | 4.58 | --- | --- |
| | -8 | 90 | 11.38 | 3.97 | 11.18 | 4.46 | 10.76 | 4.76 | 10.14 | 4.86 |
| | -4 | 90 | 12.56 | 4.05 | 12.43 | 4.55 | 12.19 | 4.94 | 11.81 | 5.23 |
| | 0 | 90 | 13.89 | 4.16 | 13.81 | 4.68 | 13.66 | 5.14 | 13.45 | 5.56 |
| | 4 | 75 | 15.38 | 4.3 | 15.3 | 4.83 | 15.2 | 5.34 | 15.09 | 5.85 |
| | 7 | 75 | 16.6 | 4.42 | 16.5 | 4.96 | 16.4 | 5.5 | 16.3 | 6.04 |
| | 15 | 70 | 20.25 | 4.83 | 20.02 | 5.4 | 19.78 | 5.94 | 19.48 | 6.45 |
| | 20 | 70 | 22.85 | 5.14 | 22.48 | 5.74 | 22.01 | 6.24 | 21.43 | 6.63 |
| 19 | -12 | 90 | 13.38 | 5.06 | 13 | 5.68 | 12.17 | 5.91 | --- | --- |
| | -8 | 90 | 14.71 | 5.13 | 14.46 | 5.76 | 13.91 | 6.14 | 13.1 | 6.27 |
| | -4 | 90 | 16.24 | 5.23 | 16.07 | 5.88 | 15.75 | 6.38 | 15.26 | 6.75 |
| | 0 | 90 | 17.96 | 5.37 | 17.85 | 6.04 | 17.66 | 6.63 | 17.38 | 7.17 |
| | 4 | 75 | 19.89 | 5.55 | 19.78 | 6.23 | 19.65 | 6.89 | 19.5 | 7.55 |
| | 7 | 75 | 21.45 | 5.71 | 21.33 | 6.4 | 21.2 | 7.1 | 21.07 | 7.8 |
| | 15 | 70 | 26.18 | 6.23 | 25.89 | 6.97 | 25.57 | 7.67 | 25.19 | 8.33 |
| | 20 | 70 | 29.53 | 6.63 | 29.07 | 7.41 | 28.45 | 8.05 | 27.71 | 8.56 |
| 25 | -12 | 90 | 17.54 | 6.56 | 17.04 | 7.36 | 15.96 | 7.65 | --- | --- |
| | -8 | 90 | 19.29 | 6.64 | 18.96 | 7.46 | 18.24 | 7.96 | 17.18 | 8.12 |
| | -4 | 90 | 21.29 | 6.78 | 21.07 | 7.62 | 20.66 | 8.27 | 20.02 | 8.74 |
| | 0 | 90 | 23.55 | 6.96 | 23.41 | 7.82 | 23.16 | 8.59 | 22.8 | 9.29 |
| | 4 | 75 | 26.08 | 7.19 | 25.94 | 8.08 | 25.77 | 8.93 | 25.58 | 9.78 |
| | 7 | 75 | 28.13 | 7.4 | 27.97 | 8.3 | 27.8 | 9.2 | 27.63 | 10.1 |
| | 15 | 70 | 34.33 | 8.08 | 33.94 | 9.03 | 33.53 | 9.94 | 33.03 | 10.79 |
| | 20 | 70 | 38.73 | 8.59 | 38.11 | 9.6 | 37.31 | 10.43 | 36.33 | 11.09 |
| 30 | -12 | 90 | 20.57 | 8.06 | 19.98 | 9.04 | 18.71 | 9.4 | --- | --- |
| | -8 | 90 | 22.62 | 8.16 | 22.23 | 9.16 | 21.39 | 9.77 | 20.15 | 9.98 |
| | -4 | 90 | 24.97 | 8.33 | 24.71 | 9.36 | 24.22 | 10.16 | 23.47 | 10.74 |
| | 0 | 90 | 27.61 | 8.55 | 27.45 | 9.61 | 27.16 | 10.55 | 26.73 | 11.41 |
| | 4 | 75 | 30.58 | 8.84 | 30.42 | 9.92 | 30.22 | 10.97 | 29.99 | 12.01 |
| | 7 | 75 | 32.99 | 9.09 | 32.8 | 10.19 | 32.6 | 11.3 | 32.4 | 12.41 |
| | 15 | 70 | 40.26 | 9.92 | 39.8 | 11.1 | 39.32 | 12.2 | 38.73 | 13.25 |
| | 20 | 70 | 45.41 | 10.55 | 44.69 | 11.79 | 43.75 | 12.81 | 42.61 | 13.62 |

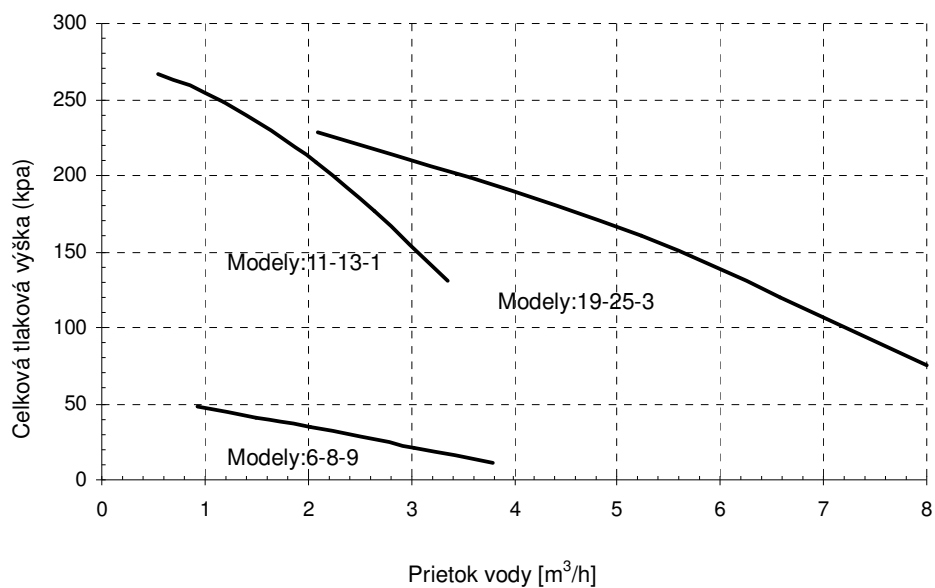
kW_r: Heating capacity [kW]

kW_e: Compressors power input [kW]

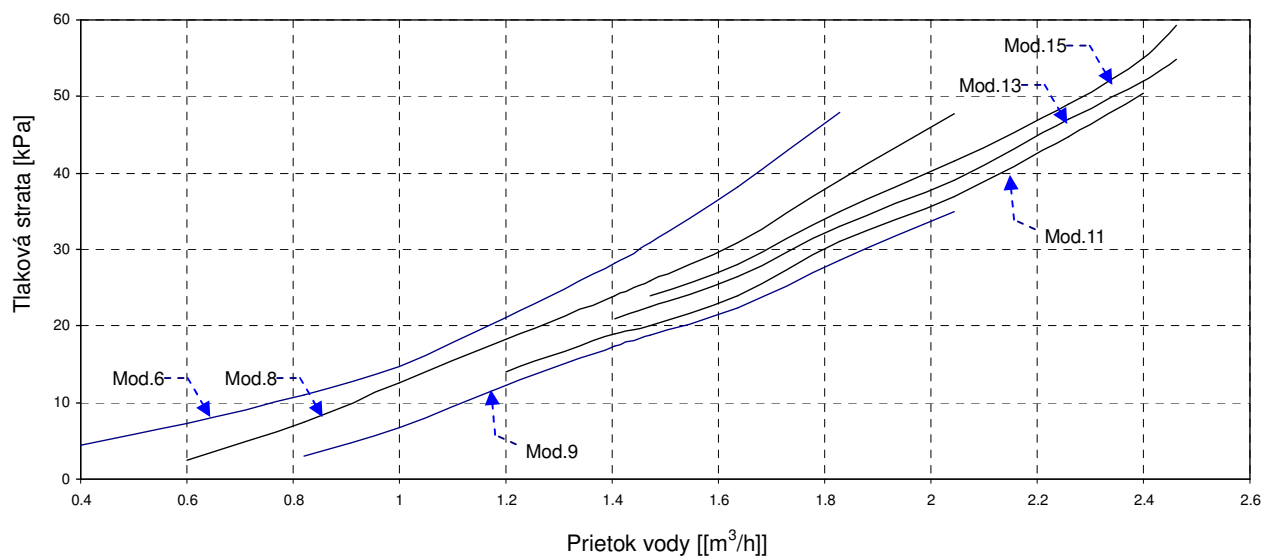
T_a: Evaporator inlet air temperature dry bulb [°C]

RH: Evaporator inlet air relative humidity [%]

Pracovné krivky vodného čerpadla



Tlaková strata vo vodnom okruhu



Rozdiel teplôt vody: min. 3 °C, max. 8 °C