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Ponudba

Z dne

02.03.2026

Projekt

Avtobusna postaja Ljubljana

Pozicija

AHU.12

akalnica

Koli ina

1

Calc. date

03.03.2026

Sodelavec

Pisarna / Posre



EECS location **MARIBOR SLIVNICA, Slovenia**

Temp, dry bulb / dew point **31,80 / 14,40**

Odgovorni: **Maja anžek**

e-pošta: **maja.canzek@systemair.si**

Seriya **KA NRVU BVU**

Izvedba **Stacked unit**

Izvedba **Zunanja enota**

KA HSO-3-2-D-R-50F-TB2-L2

Nadmorska višina [_m]

0

Specifi na teža [kg/m3]

1,20

specifi na mo motorja [w/(m3/s)]

2.183 SFP4

skupna teža [kg]

~960

Pretok **3.500 m3/h**

Zun. tlak **310 Pa**

Tot. tlak **788 Pa**

Mo motorja **1x1,300 kW**

Napajanje **230V/1/50Hz**

Calibration fact **106**

Vodni grelnik **12,77 kW**

Vodni hladilnik **11,48 kW**

Vra anje toplot **46,80 / 14,00 kW**

Pretok **3.500 m3/h**

Zun. tlak **260 Pa**

Tot. tlak **710 Pa**

Mo motorja **1x1,300 kW**

Napajanje **230V/1/50Hz**

Calibration fact **106**

Vra anje toplot **46,80 / 14,00 kW**

Real 2018

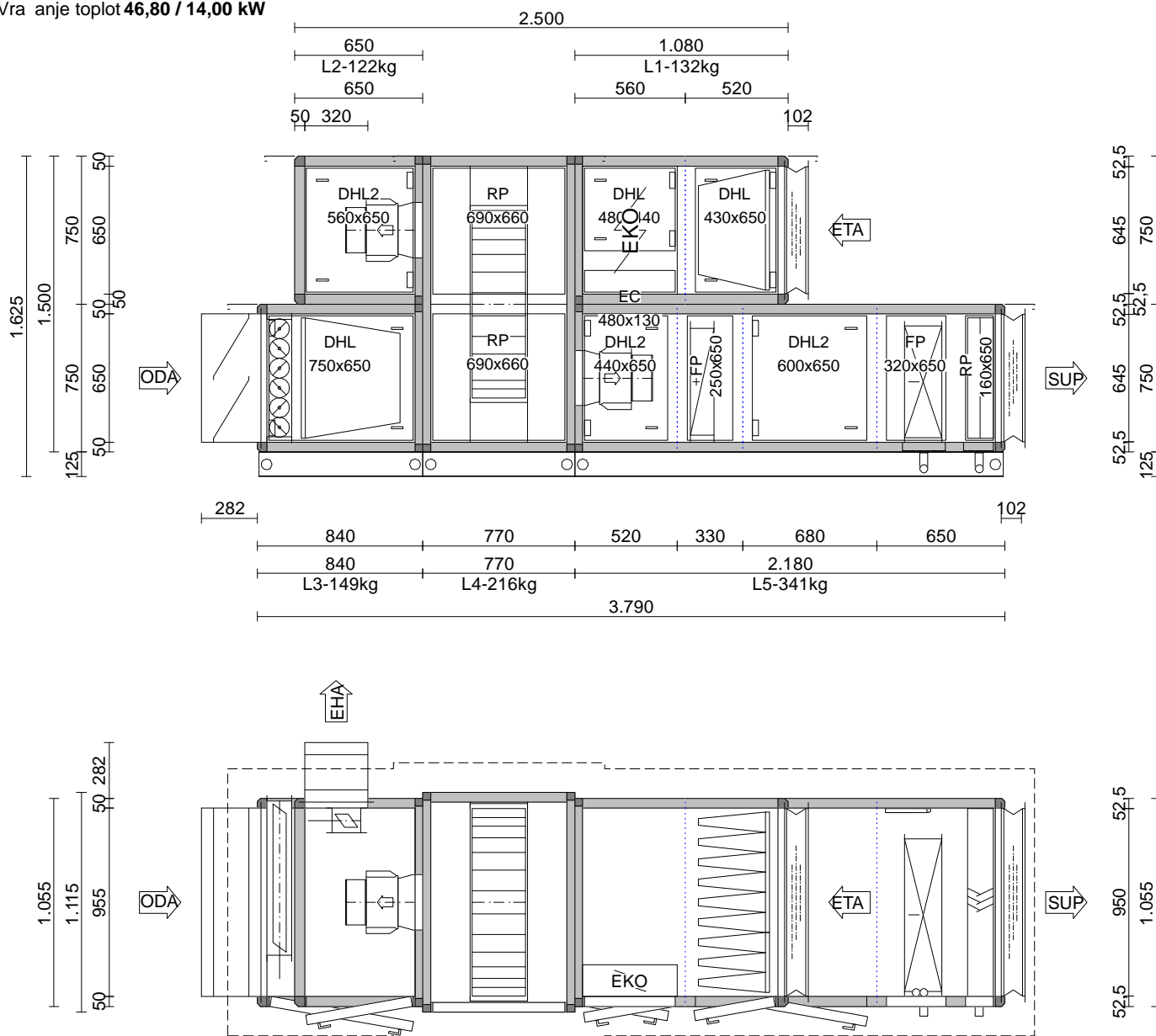
Temperaturni izk. [%] **80,90 min. 73**

SFPint **867 max. 1.191**

ErP ustrezno **Da**

SFPv **2.183** SFPe **2.243**

Podstavek je 16mm krajši od širine in dolžine naprave. Širina profila je 40



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Dovodni zrak

| Podatki o enoti | | | Ohišje: | Energetski razred | |
|-----------------------------|---------------|-----------------------------|-----------------------|---------------------------------|----------------|
| Velikost enote | KA 3-2 | | Debelina | Mineralna volna 100kg/m3 | 50,0 mm |
| Pretok [m3/h] | 3.500 | Dolžina [mm] 3.790,0 | Mat. pokrova, znotraj | ZnAlMg ZM310 | 0,80 |
| Zun. tlak [Pa] | 310 | Širina [mm] 1.055,0 | Mat. pokrova, zunaj | ZnAlMg ZM310 | 0,80 |
| Tot. tlak [Pa] | 788 | Višina [mm] 750,0 | Mat. pokrova, dno | ZnAlMg ZM310 | 0,80 |
| hitrost zraka [m/s] | 1,57 | Teža [kg] ~706,00 | Profili | aluminium painted | RAL9006 |
| Razred po EN 13053 | V1 | | Vodila | ZnAlMg ZM310 | |
| | | | Fasteners int / ext | Galvanised / Galvanised | |
| Razred prenosa toplote (M) | T2 | Razred puš anja -400Pa (M) | L2 | Razred mehanske stabilnosti (| D1 |
| Razred toplotnega mosta (M) | TB2 | Razred puš anja +700Pa (M) | L2 | Puš anje filtra (M) | F9 |

| Filter | Dovodni zrak | | 840,0 mm | 3,04 m2 | 149,00 kg | 127 Pa |
|--------------------------------------------------------------------|--------------|---------------------|-------------------------|------------------------------|-------------|--------|
| Proizvajalec | Deltrian | | dolžina filtra [mm] | 500,0 | | |
| Tip | KS85-500 | | Filterska površina [m2] | 7,10 | | |
| Razred | F7 | | celice št. x velikost | 1 x KS85-6/500/08 - 592,0x59 | | |
| isti dP [Pa] | 74 | | | 1 x KS85-3/500/04 - 287,0x59 | | |
| Design dP [Pa] | 124 | | | | | |
| Umazani dP [Pa] | 174 | | | | | |
| Pretok [m3/h] | 3.500 | 1,87 m/s | Posluževanje filtra | S strani | | |
| ISO 16890 razred | ePM2.5 70% | | | | | |
| ISO 16890 u inkovitost | E | | | | | |
| <u>Regulacijska žaluzija:</u> Dimenzije [mm] 780,0 x 595,0 x 125,0 | | | | | | |
| Vrsta pogona | motorni pog | Pretok [m3/h] | 3.500 | Okvir | Aluminij | |
| Št. Osi | 1 | hitrost zraka [m/s] | 2,09 | Lopaticice | Aluminij | |
| vrtilni moment [Nm] | 1,771 | Padec tlaka [Pa] | 3 | Tip | Arosio 125L | |

| Rotacijski regeneratorski v ohišju | | | | Dovodni zrak | | 770,0 mm | 4,03 m2 | 216,00 kg | 245 Pa | |
|------------------------------------|--------|---------------------------------------|-------------------------------------------------------|-----------------|--------------|------------------------------|-------------------|-------------------|--------|----|
| Tip | | HM1-XL-WV-0950-SM-V7-A1-5,W1000,H1000 | | | | Adsorption | | Energetski razred | | H1 |
| <u>Režim gretja</u> | | | | | | <u>Hladilni režim</u> | | | | |
| Dovod [m3/h] | 3.500 | dP (hum/std) [Pa] | 208/235 | | Dovod [m3/h] | 3.500 | dP (hum/std) [Pa] | 245/235 | | |
| Vstop [gC] | -13,00 | Hum. [%] | 80,0 | | Vstop [gC] | 31,00 | Hum. [%] | 50,0 | | |
| Izstop [gC] | 15,30 | Hum. [%] | 51,0 | | Izstop [gC] | 25,30 | Hum. [%] | 57,9 | | |
| odvod [m3/h] | 3.500 | dP (hum/std) [Pa] | 237/235 | | odvod [m3/h] | 3.500 | dP (hum/std) [Pa] | 239/235 | | |
| Vstop [gC] | 22,00 | Hum. [%] | 40,0 | | Vstop [gC] | 24,00 | Hum. [%] | 59,0 | | |
| Izstop [gC] | -6,30 | Hum. [%] | 92,4 | | Izstop [gC] | 29,70 | Hum. [%] | 51,4 | | |
| Tot. recovery capacity [kW] | 46,80 | | | | | Tot. recovery capacity [kW] | 14,00 | | | |
| Sens. recovery capacity [kW] | 33,40 | | | | | Sens. recovery capacity [kW] | 6,70 | | | |
| Temperaturni izkoristek [%] | 81 | | | | | Temperaturni izkoristek [%] | 81 | | | |
| Humidity efficiency [%] | 81 | | | | | Humidity efficiency [%] | 77,6 | | | |
| Energetski izkoristek [%] | 77,50 | | Highest wet pressure is used for Eurovent calculation | | | | | | | |
| Purge sector [°] | 5,0 | dP 22-11 | 250 | | | EATR [%] | 0 | OACF | 1,11 | |
| <u>Drive data</u> | | MRHX-02 | | | | | | | | |
| Nazivna mo [kW] | | | | nazivni tok [A] | 0,00 | nazivna napetost [| | | 1x230 | |

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| Prostoteko i ventilator | | Dovodni zrak | 520,0 mm | 1,88 m2 | 101,00 kg | Pa | | | | | |
|-----------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------|---------------------------|------------------------------|--------------|-----------------------|------|------|----------------------------------|------------|---|
| Ventilator | GR31I-ZID.DC.CR | Motor | ECblue-IE5-50-116-0-1.3 - | | | | | | | | |
| Proizvajalec | Ziehl-Abegg Standard | Zaš ita | IP55 | | | | | | | | |
| Pretok zraka [m3/h] | 3.500 | Razred izolacije | F | | | | | | | | |
| Zunanji dP [Pa] | 310 | Nazivna mo [kW] | 1,300 | | | | | | | | |
| Additional pressure [Pa] | | Nominal speed [1/min] | 2.390 | | | | | | | | |
| Static pressure EN [Pa] | 746 | Nominal current +-5% [A] | 5,74 | | | | | | | | |
| Totalni dP [Pa] | 788 | nazivna napetost [V] | 1x230V / 50Hz | | | | | | | | |
| Hitrost [1/min] | 2.832 | Razred u inkovitosti | IE5/EC | | | | | | | | |
| Koeficient šobe | 106 | Sistemska izkoristek [%] | 67 | | | | | | | | |
| | | For dimensioning of cables, fuses and other power elements, please consult with fan manufacturer | | | | | | | | | |
| Zvo na mo ventilatorja po oktavih Lokt | | | Kontrolni signal (0-10V) | 9,40 | | | | | | | |
| Okt. Frq. Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Absorbed power, validation [kW] | 1,080 | |
| Vstop | 68,0 | 67,0 | 69,0 | 68,0 | 65,0 | 63,0 | 60,0 | 59,0 | Absorbed power, selection [kW] | 1,140 | |
| Izstop | 70,0 | 69,0 | 77,0 | 74,0 | 76,0 | 76,0 | 72,0 | 70,0 | specifi na mo motorja [w/(m3/s)] | 1.116 SFP3 | |
| raven zvo ne mo i [dB (A)] | | | | | 81,3 | Dvig temperature [gC] | | | | | 1 |
| Zvo na mo [dB] | | | | | 82,9 | Rezerva | | | | | 6 |
| Sistemska efekta ventilatorja je upoštevan pri delovanju ventilatorja. | | | | | | | | | | | |
| Odprtina | | L | | Dimenzije [mm] 280,0 x 280,0 | | | | | | | |
| Grelnik | | Dovodni zrak | 330,0 mm | 1,19 m2 | 54,00 kg | 24 Pa | | | | | |
| Pretok [m3/h] | 3.500 | Medij | Voda | | | | | | | | |
| hitrost zraka [m/s] | 2,43 | Pretok medija [l/s] | 0,6170 | | Med. volume: | 4 l | | | | | |
| Vstop zraka [gC] | 15,30 | Vlažnost [%] | 51,0 | | | | | | | | |
| Izstop zraka [gC] | 26,10 | Vlažnost [%] | 26,3 | | | | | | | | |
| Mo [kW] | 12,77 | Med. vstop [gC] | 45,00 | | | | | | | | |
| Zra . pad. Tlaka [Pa] | 24 | Med. izstop [gC] | 40,00 | | | | | | | | |
| | | Padec tlaka medija [kPa] | 12,77 | | | | | | | | |
| Cevi | 2 | Lamele | Aluminij | | | | | | | | |
| Krogi | 3 | Cevi | baker | | | | | | | | |
| Medlamelna razdalja [m] | 2,00 | Zbiralna cev | baker | | | | | | | | |
| Vstopni priklju ek | 1 0/0" | Okvir | pocinkana plo evina | | | | | | | | |
| Izstopni priklju e | 1 0/0" | Zaš ita lamel | - | | | | | | | | |
| HW 16 6030S2.0 9T742 2R 3C6X1 CuAl V2 25Cu 3660Fz120 40.11.740 KGH-00I N.Cu - - - | | | | | | | | | | | |
| Designed for wet conditions | | | | | | | | | | | |
| rpalka ni v ponudbi | | | | | | | | | | | |
| Prazna enota | | Dovodni zrak | 680,0 mm | 2,46 m2 | 74,00 kg | Pa | | | | | |

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| Hladilnik | Dovodni zrak | | 650,0 mm | 2,35 m2 | 112,00 kg | 40 Pa |
|-------------------------|---------------|--|--------------------------|----------------------------|-----------|-------|
| Pretok [m3/h] | 3.500 | | Medij | Voda | | |
| hitrost zraka [m/s] | 2,22 | | Pretok medija [l/s] | 0,5480 | | |
| Vstop zraka [gC] | 25,30 | | Hitrost medija [m/s] | 1,02 | | |
| Izstop zraka [gC] | 18,00 | | Med. in/out [gC] | 7,00/12,00 | | |
| skupna topl. mo [kW] | 11,48 | | Padec tlaka medija [kPa] | 28,64 | | |
| Senz. topl. mo [kW] | 8,71 | | SHR | 0,32 | | |
| Zra . pad. Tlaka [Pa] | 34/31 | | Kondenzat [kg/h] | 3,91 | | |
| | | | | | | |
| Cevi | 3 | | Lamele | Aluminij | | |
| Krogi | 5 | | Cevi | baker | | |
| Medlamelna razdalja [m] | 2,50 | | Zbiralna cev | baker | | |
| Vstopni priključek | 0 3/4" | | Okvir | pocinkana pločevina | | |
| Izstopni priključek | 0 3/4" | | Zaščitna lamel | - | | |

CW 12 3329S2.5 17T772 3R 5C10X1 CuAl V2 20Cu 2250Fz190 35.11.610 KGH-00G N.Cu - - -
Designed for wet conditions

rpalka ni v ponudbi

Jadrovinasti nastavek Dimenzije [mm] **950,0 x 645,0 x 120,0**
prirobnica [mm] **30**, Flange material **pocinkana pločevina** Temp. max **80,00**

1 kpl. **Kabel za izenačitev potencialov za fleksibilni priključek**

| Bana | Tip | Inclined lateral double pa | Kvaliteta | Aluminij | Odstoj na cev | Velikost | 1 1/2" | Sidedesno |
|------------------------------|-------|----------------------------|-----------|-----------------|---------------|-------------|-------------|-----------|
| Eliminator vodnih kap | Model | PSG33 | Okvir | Aluminij | Lamele | PPTV | 6 Pa | |

Izračun zvoka

| Zvočna moč [dB] | | | | | | | | | | Vsota [dB(A)] |
|---------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|---------------|
| Frq. Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| Vstop | 65,0 | 63,0 | 61,0 | 59,0 | 54,0 | 50,5 | 45,5 | 36,5 | | 60,2 |
| Izstop | 65,0 | 60,0 | 57,0 | 66,0 | 62,0 | 58,0 | 53,0 | 55,0 | | 66,9 |
| Ohišje | 57,0 | 54,0 | 65,0 | 58,0 | 63,0 | 49,0 | 40,0 | 29,0 | | 64,6 |
| sound pressure level [dB] | | | | | | | | | | Vsota [dB(A)] |
| Frq. Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| Vstop | 51,0 | 49,0 | 47,0 | 45,0 | 40,0 | 36,5 | 31,5 | 22,5 | | 46,2 |
| Izstop | 51,0 | 46,0 | 43,0 | 52,0 | 48,0 | 44,0 | 39,0 | 41,0 | | 52,9 |
| Ohišje | 37,1 | 34,1 | 45,1 | 38,1 | 43,1 | 29,1 | 20,1 | 9,1 | | 44,7 |

Toleranca +/- 3 dB

Odvodni zrak

| Podatki o enoti | | | | Ohišje: | Energetski razred | | |
|-----------------------------|---------------|--|--|---------------------------------|---------------------------------|--|--|
| Velikost enote | KA 3-2 | | | Debelina | Mineralna volna 100kg/m3 | | |
| Pretok [m3/h] | 3.500 | | | Mat. pokrova, znotraj | ZnAlMg ZM310 | | |
| Zun. tlak [Pa] | 260 | | | Mat. pokrova, zunaj | ZnAlMg ZM310 | | |
| Tot. tlak [Pa] | 710 | | | Mat. pokrova, dno | ZnAlMg ZM310 | | |
| hitrost zraka [m/s] | 1,57 | | | Profil | aluminium painted | | |
| Razred po EN 13053 | V1 | | | Vodila | ZnAlMg ZM310 | | |
| | | | | Fasteners int / ext | Galvanised / Galvanised | | |
| Razred prenosa toplote (M) | T2 | | | Razred pušanja -400Pa (M) | L2 | | |
| Razred toplotnega mosta (M) | TB2 | | | Razred pušanja +700Pa (M) | L2 | | |
| | | | | Razred mehanske stabilnosti (M) | D1 | | |
| | | | | Pušanje filtra (M) | F9 | | |

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| Filter | Odvodni zrak | 520,0 mm | 1,88 m ² | 77,00 kg | 53 Pa |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------|-------------------------------------|------------------|---------------|
| Proizvajalec Deltrian | | dolžina filtra [mm] | 360,0 | | |
| Tip FP50-360 | | Filterska površina [m ²] | 3,91 | | |
| Razred M5 | | celice št. x velikost | 1 x FP50-6/360/06 - 592,0x59 | | |
| isti dP [Pa] 28 | | | 1 x FP50-3/360/03 - 287,0x59 | | |
| Design dP [Pa] 53 | | | | | |
| Umazani dP [Pa] 78 | | | | | |
| Pretok [m ³ /h] 3.500 | 1,87 m/s | | | | |
| ISO 16890 razred Coarse 70% | | Posluževanje filtra | S strani | | |
| ISO 16890 u inkovitost | | | | | |
| Jadrovinasti nastavek Dimenzije [mm] 950,0 x 645,0 x 120,0 prirobnica [mm] 30 , Flange material pocinkana pločevina Temp. max 80,00 | | | | | |
| 1 kpl. Kabel za izenačitev potencialov za fleksibilni priključek | | | | | |
| Prazna enota | Odvodni zrak | 560,0 mm | 2,02 m ² | 55,00 kg | Pa |
| Rotacijski regeneratorski v ohišju | Odvodni zrak | 770,0 mm | 4,03 m² | 216,00 kg | 245 Pa |
| Prostotok i ventilator | Odvodni zrak | 650,0 mm | 2,93 m ² | 122,00 kg | 116 Pa |
| Ventilator GR31I-ZID.DC.CR | | Motor ECblue-IE5-50-116-0-1.3 | - | | |
| Proizvajalec Ziehl-Abegg Standard | | Zaščitna | IP55 | | |
| Pretok zraka [m ³ /h] 3.500 | | Razred izolacije | F | | |
| Zunanji dP [Pa] 260 | | Nazivna moč [kW] | 1,300 | | |
| Additional pressure [Pa] | | Nominal speed [1/min] | 2.390 | | |
| Static pressure EN [Pa] 668 | | Nominal current +-5% [A] | 5,74 | | |
| Totalni dP [Pa] 710 | | nazivna napetost [V] | 1x230V / 50Hz | | |
| Hitrost [1/min] 2.748 | | Razred u inkovitosti | IE5/EC | | |
| Koeficient šobe 106 | | Sistemski izkoristek [%] | 66,7 | | |
| For dimensioning of cables, fuses and other power elements, please consult with fan manufacturer | | | | | |
| Zvočna moč ventilatorja po oktavih Lokt | | Kontrolni signal (0-10V) | 9,20 | | |
| Okt. Frq. Hz 63 125 250 500 1000 2000 4000 8000 | | Absorbed power, validation [kW] | 1,040 | | |
| Vstop 69,0 68,0 69,0 68,0 64,0 62,0 60,0 60,0 | | Absorbed power, selection [kW] | 1,040 | | |
| Izstop 70,0 70,0 77,0 74,0 75,0 75,0 71,0 69,0 | | specifična moč motorja [w/(m ³ /s)] | 1.067 | SFP3 | |
| raven zvočne moči [dB (A)] 80,6 | | Dvig temperature [gC] | 0,9 | | |
| Zvočna moč [dB] 82,5 | | Rezerva | 8 | | |
| Sistemski efekt ventilatorja je upoštevan pri delovanju ventilatorja. | | | | | |
| Regulacijska žaluzija: Dimenzije [mm] 595,0 x 145,0 x 125,0 Vrsta pogona motorni pog Pretok [m ³ /h] 3.500 Okvir Aluminij Št. Osi 1 hitrost zraka [m/s] 11,27 Lopatice Aluminij vrtilni moment [Nm] 0,347 Padec tlaka [Pa] 116 Tip Arosio 125L | | | | | |
| Odprtina L | | Dimenzije [mm] 280,0 x 280,0 | | | |

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Izračun zvoka

| zvo na mo [dB] | | | | | | | | | |
|---------------------------|------|------|------|------|------|------|------|------|---------------|
| Frq. Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Vsota [dB(A)] |
| Vstop | 66,0 | 64,0 | 61,0 | 59,0 | 53,0 | 49,5 | 45,5 | 37,5 | 60,0 |
| Izstop | 70,0 | 70,0 | 77,0 | 74,0 | 75,0 | 75,0 | 71,0 | 69,0 | 80,6 |
| Ohišje | 57,0 | 55,0 | 65,0 | 58,0 | 62,0 | 48,0 | 39,0 | 28,0 | 63,8 |
| sound pressure level [dB] | | | | | | | | | |
| Frq. Hz | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Vsota [dB(A)] |
| Vstop | 52,0 | 50,0 | 47,0 | 45,0 | 39,0 | 35,5 | 31,5 | 23,5 | 46,0 |
| Izstop | 56,0 | 56,0 | 63,0 | 60,0 | 61,0 | 61,0 | 57,0 | 55,0 | 66,6 |
| Ohišje | 37,7 | 35,7 | 45,7 | 38,7 | 42,7 | 28,7 | 19,7 | 8,7 | 44,5 |
| Toleranca +/- 3 dB | | | | | | | | | |

| | | | | | |
|---------------------|-------------------|-------------|----------------------------|-----------|-----------|
| <u>Podstavek</u> | S125.2 | Material | pocinkana pločevina | Izolirano | Ne |
| Luknja za dvig [mm] | 53,0 | Višina [mm] | 125,0 | Varjen | Ne |
| 1 kpl. | Streha FMA | | | | |

Dobavne enote

| št. | Širina | Višina | Dolžina | Teža | Lift points | Fits truck |
|-----|---------|--------|---------|--------|-------------|------------|
| 1 | 1.055,0 | 750 | 1.080,0 | 132,00 | 4 | Da |
| 2 | 1.055,0 | 750 | 650,0 | 122,00 | 4 | Da |
| 3 | 1.055,0 | 875 | 840,0 | 149,00 | 4 | Da |
| 4 | 1.115,0 | 1625 | 770,0 | 216,00 | 4 | Da |
| 5 | 1.055,0 | 875 | 2.180,0 | 341,00 | 4 | Da |

Please consult with manufacturer about transportation options

Regulation

v. 18122025

Type of automatic on AHU

Full regulation (sensors & actuators connected to electric cabinet with controller)

Water heating coil

Factory installed frostprotection temp. sensor (standard one)

Voltage of water heating coil pump

230V, max. 6A

Voltage of water cooling coil pump

Water preheater coil valve + actuator

1 Kos 3-way valve sold Systemair Slovenia - ZMD320-6,3

Water cooler 1 coil valve + actuator

1 Kos 3-way valve sold Systemair Slovenia - ZMD315-4,0

Control cabinet

Integrated in AHU

Type of temperature control

Extract air temperature control

Type of fan control

CAV control (Constant Air Volumen)

Other control

Outdoor sensor mounting

Outdoor sensor mounted inside of the unit (intake)

Extract temp. sensor mounting

Extract temp. sensor mounted inside of the unit

Type of controller

Access

Accessories for Access controller

Navidpad display (HMI) + holder

Additional function of cabinet / AHU

Heating of electrical cabinet

Additional sensors as field devices for visual inspection (this values are already visible on display in case of full re Control data

Chosen controller type: Access CU27

Regulation components

- 1 Kos **Cable temp. sensor TG-B440/PT1000, Outdoor, (Mounted)**
- 1 Kos **Cable temp. sensor TG-B440/PT1000, Extract, (Mounted)**
- 1 Kos **Cable temp. sensor TG-B440/PT1000, FrostProtection 1, (Mounted)**
- 1 Kos **Duct temp. sensor TG-KH/PT1000, Supply, (Attached)**
- 2 Kos **Pressure sensor Presigo DUO 2500 (ExoLine-Modbus), (Mounted)**
- 1 Kos **Outdoor damper actuator ON/OFF, spring return, (Mounted), LF24A, 4Nm**
- 1 Kos **Exhaust damper actuator ON/OFF, spring return, (Mounted), LF24A, 4Nm**
- 1 Kos **3-way valve, (Attached), ZMD320-6,0**
- 1 Kos **Valve actuator, (Attached)RVAZ4-24A 0-10V**
- 1 Kos **3-way valve, (Attached), ZMD315-4,0**
- 1 Kos **Valve actuator, (Attached)RVAZ4-24A 0-10V**
- 1 Kos **Controller Access CU27-C WIFI, (Mounted in cabinet)**
- 1 Kos **Display NaviPad PD70-C set, (Attached)**
- 1 Kos **Elom AHU MB: 1-4,5kW**
- 1 Kos **Main power supply 230V / 50Hz, Cable: 5x2,5mm2, Fuse: 16A**
- 1 Kos **In ele. cabinet is included: main switch, fuses for (fans, pump, etc.), relays, transformer or power supply unit, terminal block**
- 1 Kos **Access controller in electric cabinet, Secondary power supply 24V DC**
- 1 Kos **Standard communication: Modbus 485, 2-wire or TCP/IP, BACnet TCP/IP**
- 1 Kos **Temperatures: Outdoor, Supply, Extract, Frostprotection 1,**

Odgovorni: **Maja anžek**
Calc. date: **03.03.2026**

Naro nik: **Pinss d.o.o.**
Ulica:
Mesto:
Projekt: **Avtobusna postaja Ljublj**
Ulica:
Mesto:
Oddelek:

Številka projekta:
Pozicija: **AHU.12 -**



- 1 Kos **CAV / filter / temperature monitoring over Presigos / QBMs**
- 1 Kos **UI:**
- 1 Kos **DO: Outdoor/Exhaust damper, Sum alarm, Water heat pump x1,**
- 1 Kos **AO: SAF ventilator (modbus), EAF ventilator (modbus), Heating x1, Cooling, Exchanger,**
- 1 Kos **DI: Fire alarm, external switch off,**
- 1 Kos **Water cooler,**
- 1 Kos **Electric heating of cabinet**

Ecodesign information

Non Residential Unit EU1253

| | |
|---------------------------------------------------------|-----------------------|
| Ustreza ErP 2018 | Da |
| Pripombe ErP 2018 | - |
| Notranja specifi na mo ventilatorja SFPint [W/(m3/s)] | 867 |
| Najve ja dovoljena SFPint za ErP 2018 [W/(m3/s)] | 1.191 |
| Efektivna vhodna mo [kW] | 2,180 |
| Efektivna vhodna mo krmilja [kW] | |
| Referen na stopnja pretoka [m3/h] | 3.500 |
| Toplotni izkoristek [%] | 80,90 |
| Tip rekuperacijskega izmenjevalnika toplote | Other HRS |
| Najmanjši toplotni izkoristek za ErP 2018 [%] | 73 |
| Tip motorja in pogona | variable speed |
| Tip enote | BVU |
| Hitrost dotoka [m/s] | 1,57 |
| External leakage rate at +400 Pa (R) [%] | 0,33 |
| External leakage rate at -400 Pa (R) [%] | 0,72 |
| Stopnja notranjega puš anja pri 200 Pa [%] | 3,00 |
| Notranji padec tlaka prezra evalnih elementov [Pa] | 547 |
| eksterni padec tlaka [Pa] | 570 |
| Notranji padec tlaka neprezra evalnih elementov [Pa] | 297 |
| Bonus za u inkovitost E za ErP 2018 [W/(m3/s)] | 237 |
| Korekcija filtra F za ErP2018 [W/(m3/s)] | |
| Izkoristek bazne konfiguracije U1 [%] | 63,62 |
| Notranji padec tlaka prezra evalnih elementov U1 [Pa] | 282 |
| Zunanji padec tlaka U1 [Pa] | 310 |
| Notranji padec tlaka neprezra evalnih elementov U1 [Pa] | 154 |
| Izkoristek bazne konfiguracije U2 [%] | 62,45 |
| Notranji padec tlaka prezra evalnih elementov U2 [Pa] | 265 |
| Zunanji padec tlaka U2 [Pa] | 260 |
| Notranji padec tlaka neprezra evalnih elementov U2 [Pa] | 143 |

Eurovent technical data sheet

Air handling unit location

MARIBOR SLIVNICA, Slovenia

Summer dry bulb temperature [gC]

31,80

Summer wet bulb temperature [gC]

20,30

Summer dew point temperature [gC]

14,40

Winter dry bulb temperature [gC]

-9,10

Winter data

| | |
|------------------------------------------------------|------------------|
| Pretok - dovod [m3/h] | 3500 |
| Pretok - odvod [m3/h] | 3500 |
| Skupni statni tlak - dovod [Pa] | 746 |
| Skupni statni tlak - odvod [Pa] | 668 |
| Notranji statni tlak - dovod [Pa] | 436 |
| Notranji statni tlak - odvod [Pa] | 408 |
| Realna vhodna moč - dovod [kW] | 1.14 |
| Realna vhodna moč - odvod [kW] | 1.04 |
| Hitrost - dovod [m/s] | 1.57 |
| Hitrost - odvod [m/s] | 1.57 |
| Temperaturni izkoristek - dovod [%] | 80.9 |
| Temperaturni izkoristek - odvod [%] | 80.9 |
| Padec tlaka na rekuperatorju bypass off - dovod [Pa] | 245 |
| Padec tlaka na rekuperatorju bypass off - odvod [Pa] | 239 |
| Mešanje [%] | 0 |
| Zunanja temperatura [°C] | -9.1 |
| Električni dogrelnik | 0 |
| Podskupina | 1 |
| Razred energetske učinkovitosti | A+ |
| o_classt | |
| fpe | 14.999165 |
| v | 1.4 |
| T | 83 |
| p | 250 |
| Ngref | 64 |
| Px - dovod | 28.3 |
| Py - dovod | -5 |
| Pz - dovod | 31.5 |
| Psup. Ref. | 1.234 |
| Px - odvod | 25.1 |
| Py - odvod | -11 |
| Pz - odvod | 31.5 |
| Pext. Ref. | 1.1202 |
| fs-Pref | 0.93 |

Summer data

| | |
|------------------------------------------------------|---------------|
| Pretok - dovod [m3/h] | 3500 |
| Pretok - odvod [m3/h] | 3500 |
| Skupni statni tlak - dovod [Pa] | 746 |
| Skupni statni tlak - odvod [Pa] | 668 |
| Notranji statni tlak - dovod [Pa] | 436 |
| Notranji statni tlak - odvod [Pa] | 408 |
| Realna vhodna moč - dovod [kW] | 1.14 |
| Realna vhodna moč - odvod [kW] | 1.04 |
| Hitrost - dovod [m/s] | 1.57 |
| Hitrost - odvod [m/s] | 1.57 |
| Temperaturni izkoristek - dovod [%] | 81 |
| Temperaturni izkoristek - odvod [%] | 81 |
| Padec tlaka na rekuperatorju bypass off - dovod [Pa] | 245 |
| Padec tlaka na rekuperatorju bypass off - odvod [Pa] | 239 |
| Mešanje [%] | 0 |
| Zunanja temperatura [°C] | 10 |
| Električni dogrelnik | 0 |
| Podskupina | 2 |
| Razred energetske učinkovitosti | A+ |
| o_classt | N |
| fpe | -0.15 |
| v | 1.4 |
| T | 83 |
| p | 250 |
| Ngref | 64 |
| Px - dovod | 64.6 |
| Py - dovod | |
| Pz - dovod | |
| Psup. Ref. | 1.2178 |
| Px - odvod | 60.5 |
| Py - odvod | |
| Pz - odvod | |
| Pext. Ref. | 1.0955 |
| fs-Pref | 0.94 |