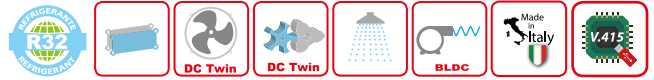


i-32 V5 New



4 kW ÷ 18 kW

Pompa de caldura Inverter R32 monobloc.
Inverter R32 monoblock heat pump.



COP=
A+++



10 modele: cele mai compacte si performante de pe piata!

Ten models: the most compact and the best performing of the market!

VERSIONI

i-32V5
i-32V5/KA

Pompa de caldura reversibila
Pompa de caldura reversibila cu kit anti
inghet inclus

VERSIONS

i-32V5
i-32V5/KA

Reversible heat pump
Reversible heat pump with integrated defrosting kit

Tehnologia Inverter a compresoarelor alaturi de motoarele DC fara perii pentru ventilatoare impreuna cu puterea de modulare ridicata asigura o eficienta energetica totala maxima. Extinderea acestor tehnologii asupra tuturor componentelor asigura imbunatatirea EER si a COP si cresc substantial eficienta la sarcini partiale (ESEER si SCOP).

CARACTERISTICI CONSTRUCTIVE:

- Sistem de comandă proprietar cu reglaj pentru microcontroler, logică de control supraîncălzire cu supapă electronică de expansiune.
- Compressoare cu inverter DC: inverter DC rotativ R32.
- Ventilatoare: axiale cu motoare EC brushless fara perii.
- Condensator: circuit optimizat realizat din tevi de cupru și aripoare din aluminiu hidrofile..
- Evaporator: Schimbator de caldura din placi lipite realizat din oțel inoxidabil AISI 304 cu cădere de presiune redusă pe partea de apă.
- Circuit frigorific: Circuitul este fabricat din țevi de cupru și include: controlul condensarii, valvă electronică de expansiune, vana de inversare, comutatoare pentru inalta si joasă presiune, separator și receptor de lichid, supape pentru întreținere și control, traductoare de presiune pentru presiune dublă aspiratie, presiune joasă și inalta.
- Sistem hidraulic integrat: pompă de circulație fără perii cu eficiență ridicată, vas de expansiune, fluxostat, aerisitoare, supapă de presiune (6 bari), manometru, supapă de apă pentru încărcare / descărcare instalatie.

LOGICA SI CONTROL:

- Toate unitățile pot funcționa în trei moduri diferite: încălzire, răcire și producție de apa calda menajera, cu programe specifice care îmbunătățesc performanțele în toate condițiile, cu gestionarea curbei de temperatură..
- Le unità della serie V5 sono in grado di gestire valvole miscelatrici, deviatrici e circolatori lato secondario; sono inoltre in grado di controllare l'impianto solare termico, l'eventuale integrazione con fonti esterne di calore, e l'integrazione a sistemi esterni di Home/Building automation o di Domotica. Tutta la serie i-32/V5 è controllabile da remoto (accessorio HI-T) accedendo direttamente al sistema da qualsiasi browser (connessione ad una rete esistente con cavo ethernet).

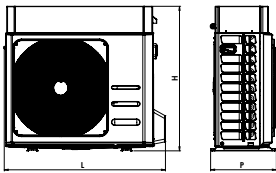
The inverter technology employment together with DC brushless motors ensures higher global energetic efficiency of equipment also thanks to high and effective modulating power. The employment extension to all components gives the COP and EER improvement and a substantial increase of partial loads efficiency.

BUILDING FEATURES:

- Customized control system with microcontroller regulation, overheating control logic with electronic expansion valve.
- DC inverter compressors: twin-rotary Dc Inverte.
- Ventilation: DC inverter with axial fan
- Source exchanger: optimized circuit with finned coil, copper pipes and hydrophilic aluminum fins.
- Users exchanger. A brazed stainless steel plate AISI 304 with reduced pressure drop on the water side.
- Refrigerant circuit: The circuit is made with copper pipes and includes: condensing control, electronic expansion valve, reversing valve, high/low pressure switch, separator and liquid receiver, valves for maintenance and control, double-inlet pressure, high and low pressure transducers.
- Integral hydraulic system: pump with high efficiency brushless circulator, expansion tank, flow switch, air valve, pressure relief valve (6 bar), pressure gauge, water valve for system charge/discharge.

LOGIC AND CONTROLS:

- All units can works in three different modes: heating, cooling and D.H.W., with specific programs that enhance the performance in all conditions, with possible management of the temperature curve.
- The V5 series units are able to handle mixing valves, diverter and circulatory secondary side; They are also able to control the solar thermal system, the eventual integration with external heat sources, and integration with external systems Home Building automation or Domotic. All i-32/V5 series is controllabile remotely (accessory HI-T) directly accessing the system from any browser (connection to an existing network with ethernet cable).



Dimensiuni- Dimensions		04	06	08	10
L	mm	924	924	924	1.047
P	mm	377	377	377	456
H	mm	828	828	828	936

i-32V5

04

06

08

10

Racire / Cooling

Capacitate de racire / Cooling capacity (1)	kW	4,23	5,02	6,08	7,53
Putere absorbita / Power input (1)	kW	1,29	1,6	1,99	2,39
E.E.R. (1)	W/W	3,28	3,14	3,05	3,15
Putere frigorifica / Cooling capacity (2)	kW	5,51	6,18	7,72	9,5
Putere absorbita / Power input (2)	kW	1,10	1,28	1,76	2,15
E.E.R. (2)	W/W	5,02	4,82	4,38	4,41
Debit de apa / Water flow (1)	L/s	0,20	0,24	0,28	0,36
Presiune disponibila / Available pressure (1)	kPa	79,4	78,7	75,7	68,1

Incalzire / Heating

Capacitate de incalzire (3)	kW	4,55	6,08	7,81	10,1
Putere absorbita / Power input (3)	kW	0,95	1,35	1,78	2,28
C.O.P. (3)	W/W	4,78	4,51	4,38	4,43
Capacitate de incalzire(4)	kW	4,47	5,88	7,58	9,76
Putere absorbita / Power input (4)	kW	1,17	1,66	2,17	2,80
C.O.P. (4)	W/W	3,82	3,54	3,50	3,48
Debit de apa / Water flow (4)	L/s	0,22	0,28	0,37	0,47
Presiune disponibila / Available pressure (4)	kPa	79,2	75,5	67,6	47,9
eficienta energetica / Energy efficiency (Apa /Water 35°C-55°C)		A+++/A++	A+++/A++	A+++/A++	A+++/A++

Compresor / Compressor

Tip / Type	Twin Rotary DC Inverter				
Compressoare / Compressors	n°	1	1	1	1
Circuite frigorifice / Refrigerant circuits	n°	1	1	1	1
Cantitate refrigerant / Refrigerant charge (7)	kg	1,5	1,5	2,3	2,3

Circuit hidraulic / Hydraulic circuit

Racorduri hidraulice / Water connections	inch	1" M	1" M	1" M	1" M
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Nivel de zgomot / Sound level

Putere sonora / Sound power Lw (9)	dB(A)	64	64	64	64
Presiune sonora la 1 m / Sound pressure at 1 m distance Lp1 (10)	dB(A)	49,8	49,8	49,8	49,4

Date electrice / Electrical data

Alimentare / Power supply		230V/1/50Hz			
Putere absorbita max / Max. power input	kW	2,9	3,5	3,9	4,6
Intensitate max / Max. current input	A	12,6	15,1	17,0	20,2

Greutate / Weight

Greutate bruta / Gross weight	kg	84	84	84	110
Greutate in functiune / Operation weight	kg	72	72	72	96

Conditii de operare:

- (1) Racire: temp. aer exterior 35°C; temp apa intrare/iesire 12/7°C.
- (2) Racire: temp. aer exterior 35°C; temp apa intrare/iesire 23/18°C.
- (3) Incalzire: temp. aer exterior 7°C; b.s. 6°C; b.u.; temp apa intrare/iesire 30/35°C.
- (4) Incalzire: temp. aer exterior 7°C; b.s. 6°C; b.u.; temp apa intrare/iesire 40/45°C.
- (5) Racire: temp. apa intrare/iesire 12/7°C.
- (6) Incalzire: conditii climatice medii; Tdiv=-7°C; temp apa intrare/iesire 30/35°C.
- (7) Date indicative ce pot varia. Pentru date exacte consultati eticheta tehnica a unitatii.
- (8) Calcul realizat pentru o scadere de temperatura de 10 °C a sistemului si ciclu de degivrare de 6 minute.
- (9) Putere sonora: mod de incalzire conditie (3); valori determinate in conformitate cu normativul UNI EN ISO 9614-2, respectand normele de calcul EUROVENT.
- (10) Presiune sonora: valori calculate conform cu ISO 3744:2010 la 1 m.
- (*) Impresna cu functia Max Hz activa

Operating conditions:

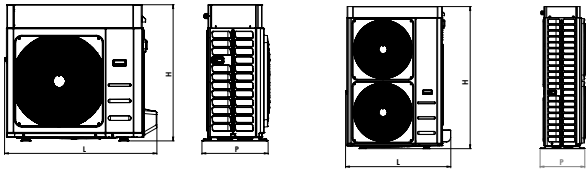
- (1) Cooling: Outdoor air temperature 35°C; inlet/outlet water temperature 12/7°C.
- (2) Cooling: Outdoor air temperature 35°C; inlet/outlet water temperature 23/18°C.
- (3) Heating: Outdoor air temperature 7°C; DB 6°C; WB; inlet/outlet water temperature 30/35°C.
- (4) Heating: Outdoor air temperature 7°C; DB 6°C; WB; inlet/outlet water temperature 40/45°C.
- (5) Cooling: Water temperature inlet/outlet 12/7°C.
- (6) Heating: in average climate condition; Tdiv=-7°C; water temperature inlet/outlet 30/35°C.
- (7) The data are only indicative and subject to change. For the correct data, refer to the technical label stuck on the unit.
- (8) Calculated for a decrease of the water temperature of the plant with 10°C with a defrosting cycle of 6 minutes.
- (9) Sound power heating mode condition (3); the value is determined respecting the measurements taken in accordance with the regulations UNI EN ISO 9614-2, in compliance with the Eurovent certification.
- (10) Sound pressure level obtained with internal measurements made in accordance with ISO 3744, at 1 m distance.
- (*) activating the Max Hz function.

ACCESORII

- AG** Suporti antivibranti
- KA** Kit anti inghet
- Hi-T2** Panou de comanda prin Internet cu ecran tactil
- VDIS2** Vana deviatoare (1" 1/4) Kvs 19,2
- SAS** Senzor de temperatura apa calda/rece instalatie
- EXOGEL** Vana de protectie inghet
- RFC** Controller ventiloconvectoare (impresna cu Hi-T)
- i-CR** Panou de comanda la distanta cu termostat
- GI** Modul de gestiune sistem de incalzire/racire

ACCESSORIES

- AG** Vibration dumper kit
- KA** Antifreeze kit
- Hi-T2** Multifunctioning touch screen remote control
- VDIS2** Diverter valve (1" 1/4) Kvs 19,2
- SAS** DHW probe / Sanitary water probe
- EXOGEL** Frost protection
- RFC** Remote fancoil control (Hi-T control required)
- i-CR** Remote wall controller
- GI** Plant management module



Mod. 10-12

Mod. 14-14T-16-16T-18T

Dimensiuni- Dimensions		12	14	14T	16	16T	18T
L	mm	1.047	1.044	1.044	1.044	1.044	1.044
P	mm	456	455	455	455	455	455
H	mm	936	1.409	1.409	1.409	1.409	1.409

i-32V5

12

14

14T

16

16T

18T

Racire / Cooling

Capacitate de racire / Cooling capacity (1)	kW	8,51	11,48	11,48	13,8	13,8	15,04
Putere absorbita / Power input (1)	kW	2,79	3,53	3,53	4,38	4,38	4,88
E.E.R. (1)	W/W	3,05	3,25	3,25	3,15	3,15	3,08
Putere frigorifica / Cooling capacity (2)	kW	11,6	14	14	15,8	15,8	17,1
Putere absorbita / Power input (2)	kW	2,79	2,59	2,59	3,15	3,15	3,59
E.E.R. (2)	W/W	4,16	5,40	5,40	5,02	5,02	4,76
Debit de apa / Water flow (1)	L/s	0,41	0,55	0,55	0,66	0,66	0,71
Presiune disponibila / Available pressure (1)	kPa	59,0	70,3	70,3	44,9	44,9	40,4

Incalzire / Heating

Capacitate de incalzire (3)	kW	11,8	14,1	14,1	16,3	16,3	17,9
Putere absorbita / Power input (3)	kW	2,73	2,91	2,91	3,49	3,49	4,07
C.O.P. (3)	W/W	4,32	4,85	4,85	4,67	4,67	4,40
Capacitate de incalzire (4)	kW	11,47	13,56	13,56	15,77	15,77	17,32
Putere absorbita / Power input (4)	kW	3,33	3,55	3,55	4,24	4,24	4,92
C.O.P. (4)	W/W	3,44	3,82	3,82	3,72	3,72	3,52
Debit de apa / Water flow (4)	L/s	0,55	0,65	0,65	0,76	0,76	0,83
Presiune disponibila / Available pressure (4)	kPa	35,1	53,9	53,9	27,6	27,6	11,5
Eficienta energetica / Energy efficiency (Acqua/Water 35°C-55°C)		A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++

Compressoare / Compressor

Tip / Type	Twin Rotary DC Inverter						
Compressoare / Compressors	n°	1	1	1	1	1	1
Circuite frigorifice / Refrigerant circuits	n°	1	1	1	1	1	1
Cantitate refrigerant / Refrigerant charge (7)	kg	2,3	3,5	3,5	3,5	3,5	3,5

Circuit hidraulic / Hydraulic circuit

Racorduri hidraulice / Water connections	inch	1" M	1" M	1" M	1" M	1" M	1" M
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Nivel de zgomot / Sound level

Putere sonora / Sound power Lw (9)	dB(A)	65	68	68	68	68	68
Presiune sonora la 1 m / Sound pressure at 1 m distance Lp1 (10)	dB(A)	50,4	52,7	52,7	52,7	52,7	52,7

Date electrice / Electrical data

Alimentare / Power supply		230V/1/50Hz	230V/1/50Hz	400V/3P+N+T/50Hz	230V/1/50Hz	400V/3P+N+T/50Hz	400V/3P+N+T/50Hz
Putere max absorbita / Max. power input	kW	5,1	6,6	6,6	7,3	7,3	8,3
Intensitate max / Max. current input	A	22,1	28,6	19,4	31,7	21,5	24,5

Greutate / Weight

Greutate bruta / Gross weight	kg	110	134	148	140	154	154
Greutate in functiune / Operation weight	kg	96	121	136	126	141	141

Conditii de operare:

- (1) Racire: temp. aer exterior 35°C; temp apa intrare/iesire 12/7°C.
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- (4) Incalzire: temp. aer exterior 7°C b.s. 6°C b.u.; temp apa intrare/iesire 40/45°C.
- (5) Racire: temp apa intrare/iesire 12/7°C.
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- (*) Impreuna cu functia Max Hz activata

Operating conditions:

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- (3) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet water temperature 30/35°C.
- (4) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet water temperature 40/45°C.
- (5) Cooling: Water temperature inlet/outlet 12/7°C.
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