

AIR UNIT **STAVOKLIMA**

Installation and operation manual

Nevada JET HC/HP model

EN



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Explanation of symbols used

 <p>Instructions for mechanical repairs and maintenance.</p>	 <p>Important safety information, technical information, data and device output.</p>
 <p>Important electric information - read carefully - unit damage hazard in case of wrong installation.</p>	 <p>Important information - please read carefully.</p>

2. Unpacking, check after transport or warehousing

2.1. Unpacking and check

Carefully check the delivery note attached to the delivery. For components identified as extra accessories in the delivery note (not included in the unit or installed therein), please check completeness to the parcel and perfect condition (usually delivered in a separate box). Report any serious damage to packaging or boxes, and make a basic record to the parcel transport documents. Inform the transport company or manufacturer (if the manufacturer arranges transport) immediately.

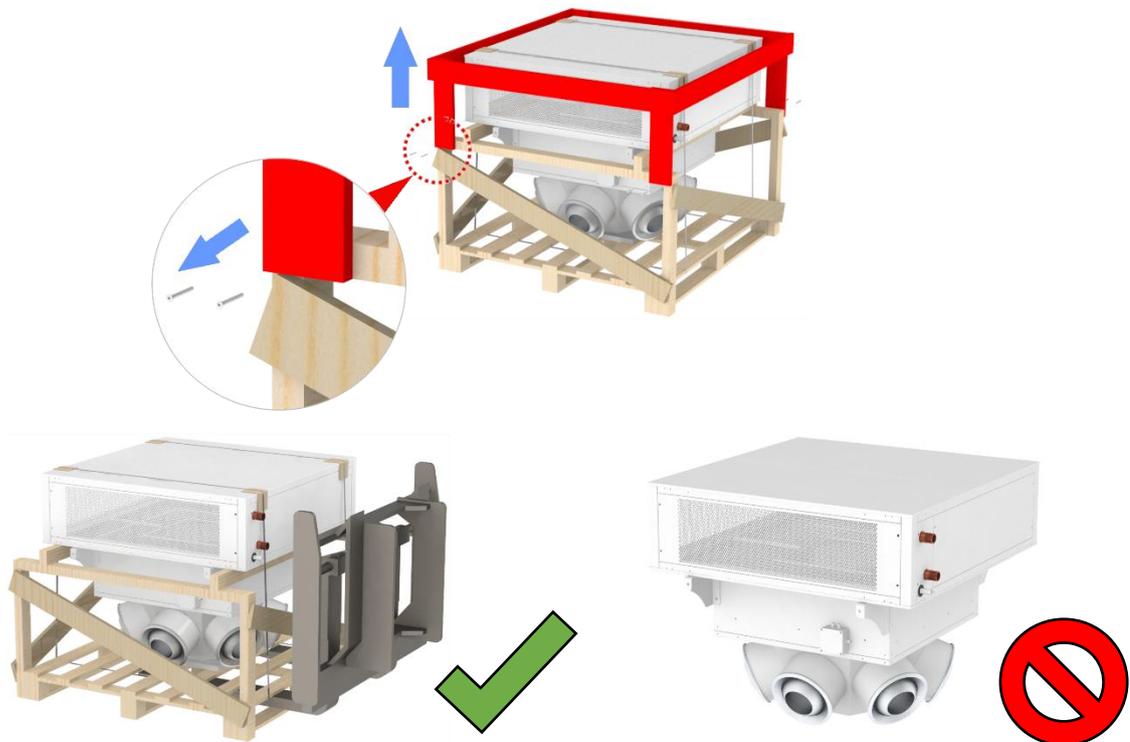
All packaging material used is environmentally friendly and may be reused or recycled. Dispose of or reprocess the non-environmentally friendly components correctly.

To open the packaging, remove bolts and top part of the transport frame.



Use original packaging for storage, transport, or assembly. The packaging is designed to protect the unit against damage in doing so. Use appropriate manipulation devices for handling.

Handling with the unit without original packaging is prohibited. The manufacturer accepts no liability for damage resulting from incorrect handling!



2.2. Storing of the unit, additional transport recommendations



- Observe packaging decals on the unit. The device in its packaging must not be turned or placed in transport positions other than those supplied and recommended by the manufacturer. Packaging also contains production number and unit type for easy unit type identification.
- Use genuine packaging for further transport of the unit. The packaging is tested for re-use, and a different packaging may cause damage to the unit.
- Use means with certified sufficient loading capacity for transport and handling; properly qualified persons only may operate the transport means.
- Permissible warehousing conditions: $-10^{\circ}\text{C} \div 50^{\circ}\text{C}$, 50-85% humidity without condensation.
- Do not remove genuine packaging until installation is complete (to avoid device damage). At least 2 persons are recommended for safe handling.



3. Safety measures

The unit has been manufactured in line with the government decrees and Czech standards harmonized with the EU regulations mentioned in the manufacturer's declaration of conformity.

The above mentioned product complies with the following standards:

ČSN EN 60335-1 ed.3 ČSN EN 60335-2-30 ed. 3
ČSN EN IEC 61000-6-2 ed. 4 ČSN EN 61000-6-3 ed. 2

The above mentioned product complies with the following directives:

- Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of eco-design requirements for energy-related products.
- Government Decree No. 118/2016 Coll. Directive 2014/35/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits.
- Government Decree No. 117/2016 Coll. Directive 2014/30/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.
- Government Decree No. 481/2012 Coll. (Regulation of the European Parliament and of the Council No. 2014/35/EU, Regulation of the European Parliament and of the Council No. 2011/65/EU).
- Government Decree on restriction the use of some hazardous materials found in electrical and electronic products.

Observe generally applicable national provisions and other related regulations. Unplug the unit from mains before any service intervention. Connection and earthing of the electric device or components thereof must be in line with laws applicable in the country of use. Only qualified staff may carry out any electric service works.



Observe applicable laws, in particular:

- on safety of electric and thermal appliances,
- on central heat distribution systems,
- on fire safety,
- for tightness of stationary cooling and AC devices and heat pumps including some fluoridated greenhouse gases.

Follow standards and rules applicable in the country of use, in particular the fire safety of appliances and heat sources, and the fire technical properties of materials - flammability levels. Place the unit 150mm from B, C1, C2 level flammable materials, and 400mm and 1000mm for C3 level easily flammable materials in the radiation direction (air flow from the unit).

4. Basic information about the unit and its use

The Nevada Jet HP unit provides an effective heating or cooling of spaces using renewable energy sources. The heating/cooling is provided from outdoor heat pump unit that uses R410A environmentally-friendly coolant. The system is air-air one that combines cost saving as well as effective solution to a request for efficient heating or cooling. It is a perfect fit for use in residential areas owing to low operation noise level of the outdoor unit.

Air heated/cooled by a water cooler is used for heating or cooling in the Nevada JET HC unit.

The units are suitable for basic spaces, i.e., without moisture. These devices are suitable for shops, industrial, and warehouse environments. Not suitable for dusty rooms.

Full performance of the unit may be provided only when maintenance is regular and proper. All controls are accessible and well maintained.

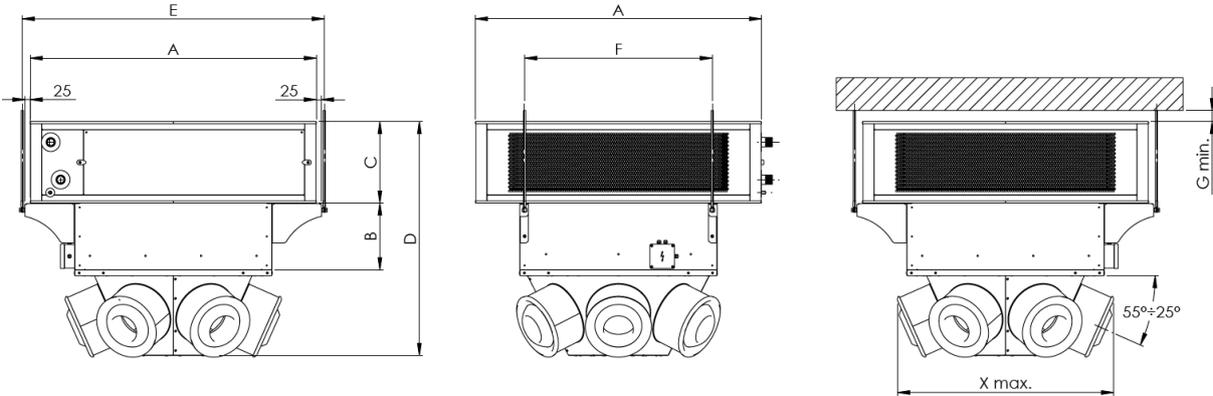
Technical conditions for unit operation:



- max. media working temperature 90°C/pressure 1.6MPa – unless specified otherwise,
- working voltage 230V-50Hz or 400V-50Hz (by unit type),
- working temperature in the space 5 – 40°C,
- working temperature of the outdoor unit from -20 to +21 °C,
- IP rating – IP 54,
- The unit is designed for spacious and tall spaces,
- the unit is designed for heating and cooling.

5. Dimensions of the units

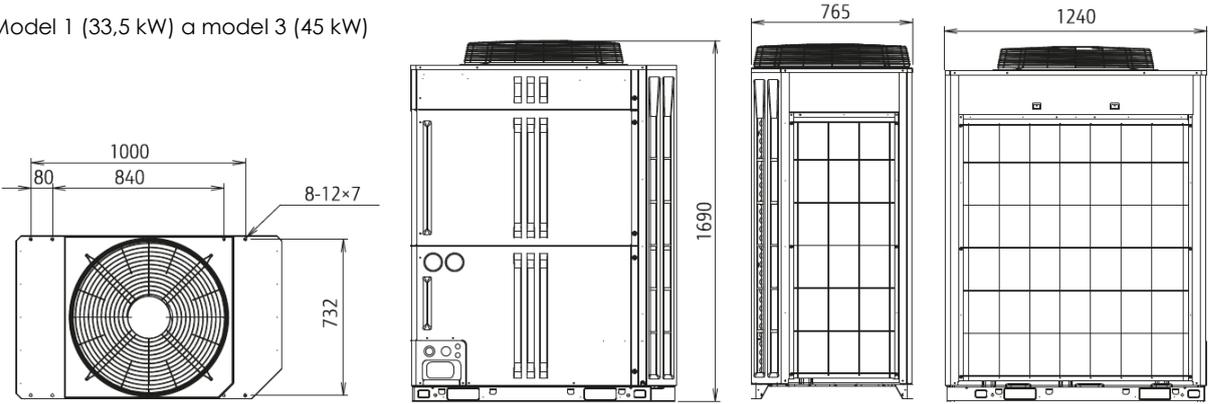
5.1. Indoor unit



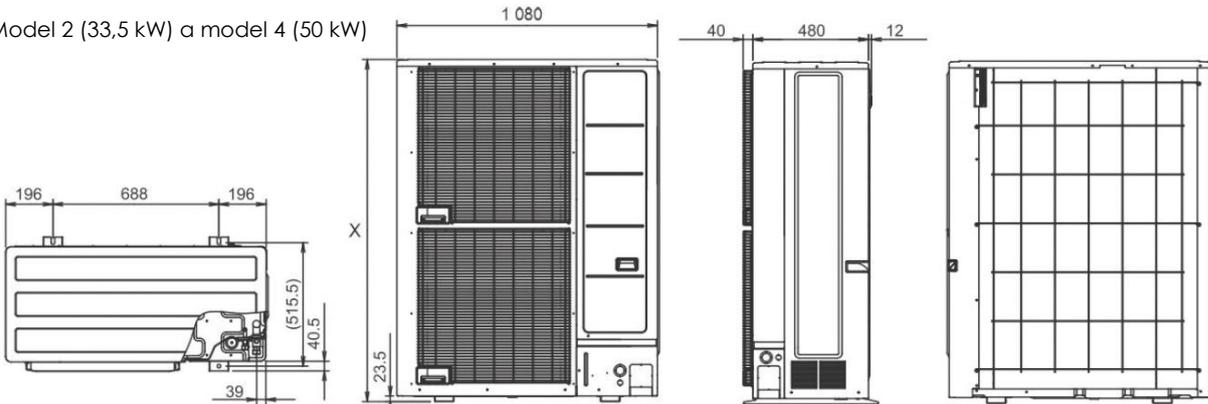
Model	Dimension (mm)							
	A	B	C	D	E	F	G	X
Nevada N3 JET HC/HP	1305	305	400	1070	1375	855	20	990
Nevada N4 JET HC/HP	1645	350	500	1305	1720	1075	20	1190

5.2. Outdoor unit (for Nevada JET HP only)

Model 1 (33,5 kW) a model 3 (45 kW)

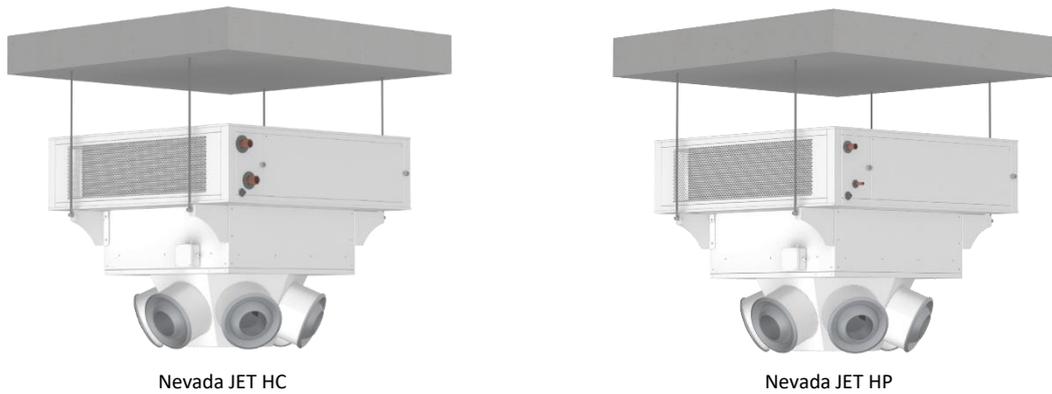


Model 2 (33,5 kW) a model 4 (50 kW)



Model	Height X (mm)
Nevada N3 JET HP12 (33,5 kW)	1305
Nevada N4 JET HP18 (50 kW)	1605

6. Units installation



Installation of the indoor unit under ceiling

6.1. ZS-Nevada JET HC/HP suspensions under ceiling

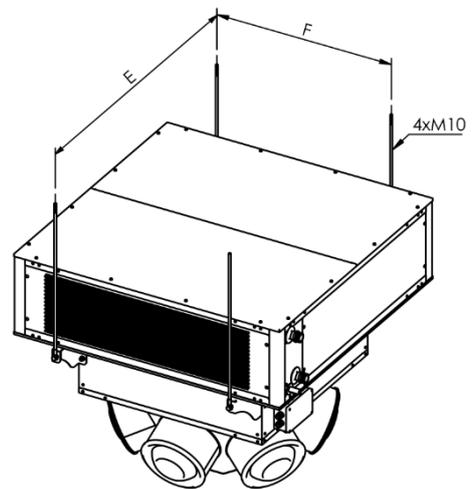
The unit is suspended in four suspension points on the unit casing. The suspension points are accessible from outside and rivet nuts (M10 threads) are installed on the unit from production plant.

Upon special purchase order, the following is supplied as accessories to the ZS-Nevada JET HC/HP under-ceiling suspensions:

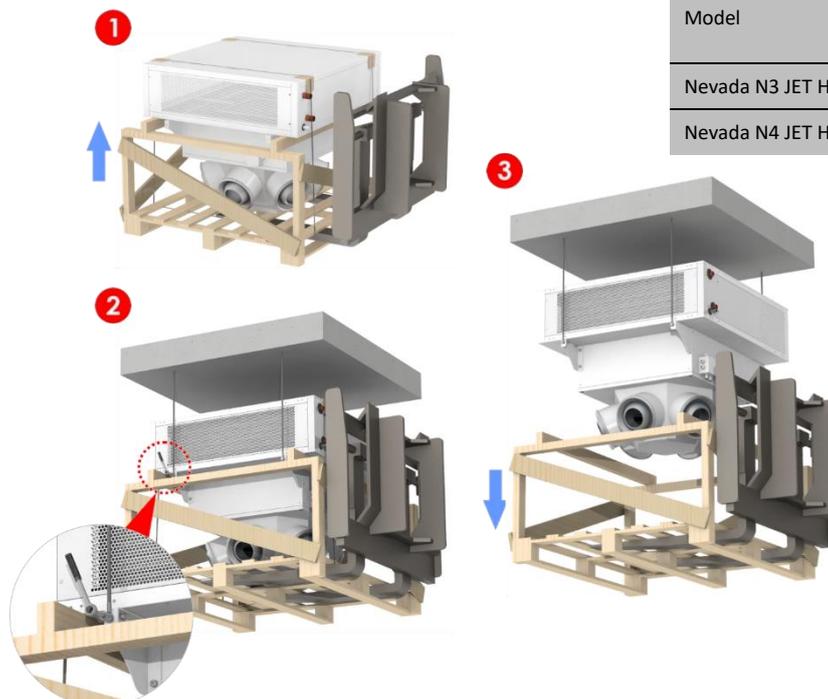
4 pcs M10x1000 - 8.8 thread bar, 4 pcs M10/40 anchor, 4 pcs M10 suspension lug, 8 pcs M10 - 8.8 nuts, 4 pcs M10x45 - 8.8 bolt, 4 pcs big flat washer size 10, 4 pcs spring washers size 10.



Measure the position of the unit and its distance from the ceiling, and cut the threaded bars to required length. Mark the anchoring points and drill ceiling holes for installation of the anchors. Fit the threaded rods into the prepared ceiling anchors and rotate the nuts. Fit ends of the threaded bars with suspension lugs. Lift the unit using a handling device with transport frame. Set the unit to the required position and attach the suspension lugs to the unit using the bolts provided.



Model	Dimension (mm)	
	E	F
Nevada N3 JET HC/HP	1375	855
Nevada N4 JET HC/HP	1675	1075





Pay attention to correct fitting of all nuts to all assembly components. Pay attention to the end position of the threads to avoid loosening and falling the unit by rotation.

Use quality anchors and wall plugs only. Consider installation situation and suitability of anchoring and installation material, including loading capacity of the structure properly. The manufacturer accepts no liability for improperly used wall plugs or other installation and hanging material.

Following the assembly, check for horizontal position in both directions. Make sure that tightening up of individual hangers and sleeves do not cause crossing and twisting of the unit. Always properly consider loading capacity of the ceiling or of the wall. Install the device to structurally solid beams.

Always suspend the device to all suspension points.

6.2. Outdoor unit installation (for Nevada JET HP only)

For installation of the outdoor unit, refer to a separate manual.

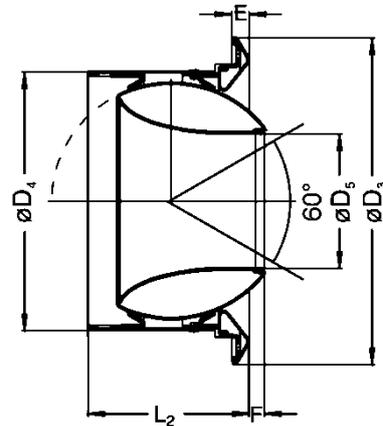
7. Setting up and disassembly of the outlet nozzle

The long-range nozzles are used in particular where the supplied air must span large distances between the nozzle and the zone of stay.

This is in case where large spaces (halls etc.) does not permit or make unsuitable to arrange for uniform air supply through ceiling anemostats. Here, the long-range nozzles located on sides of the spaces find their use.

The long-range nozzles offer high noise comfort due to their aerodynamic optimized shape. For these reasons and for their corresponding design they may also be used in comfort spaces, such as concert halls, theatres, museums, and more.

The outlet nozzle may be directed up to 30° in all directions (see Figure).



To disassemble the nozzle, proceed as follows:

1. Remove the screws around the collar and remove it.
2. Use the Allen wrench to loose the bolts that lock the nozzle.
3. Slide the nozzle out.



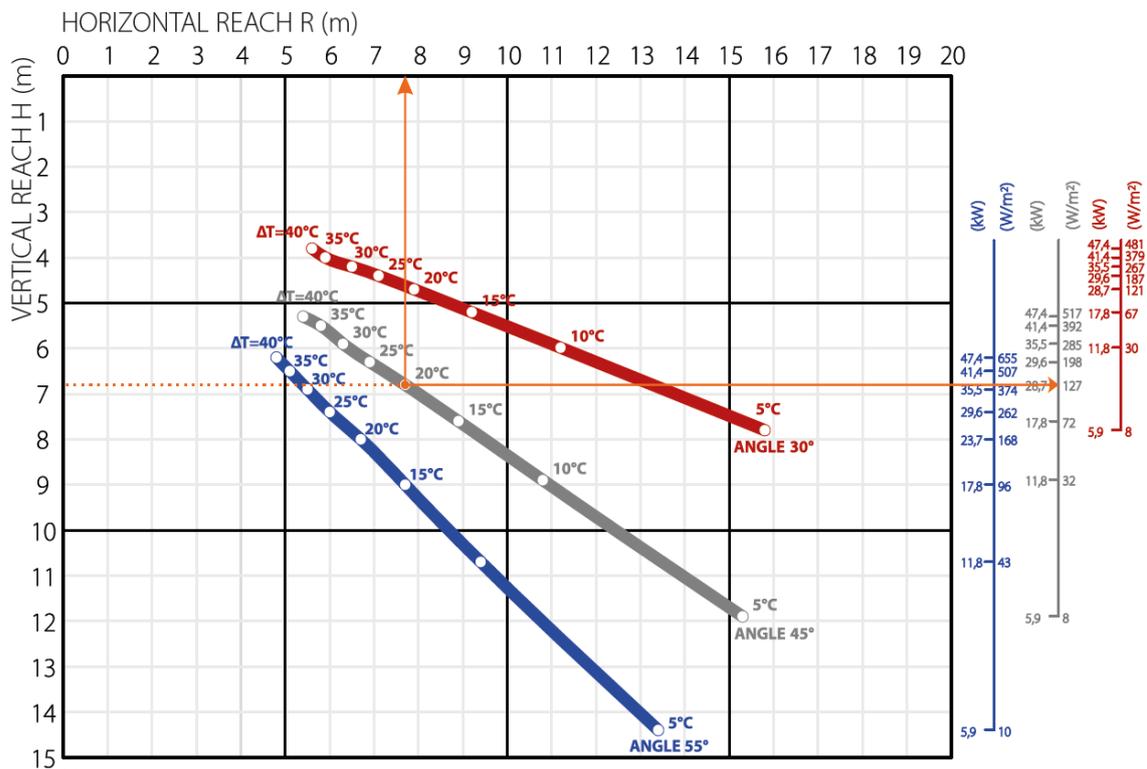
Configuration of optimal nozzle angle (°) based on the mounting height (H) and diameter of heated floor area (D).

		D (m)									
		10	12,5	15	17,5	20	22,5	25	27,5	30	32,5
H (m)	3	36	30	26	25	22	20	-	-	-	-
	4	43	36	33	32	29	28	27	25	23	22
	5	-	44	39	36	34	31	30	28	26	24
	6	-	-	44	39	36	34	32	30	28	26
	7	-	-	-	44	39	37	34	32	31	31
	8	-	-	-	-	45	42	41	38	35	33
	9	-	-	-	-	46	45	42	40	38	36
	10	-	-	-	-	-	46	45	43	40	38
	11	-	-	-	-	-	-	47	45	43	42
	12	-	-	-	-	-	-	-	47	46	44
	13	-	-	-	-	-	-	-	-	48	46
	14	-	-	-	-	-	-	-	-	-	48

■ Nevada N3 JET HC/HP ■ Nevada N4 JET HC/HP

7.1. Air flow distribution graph (for heating only)

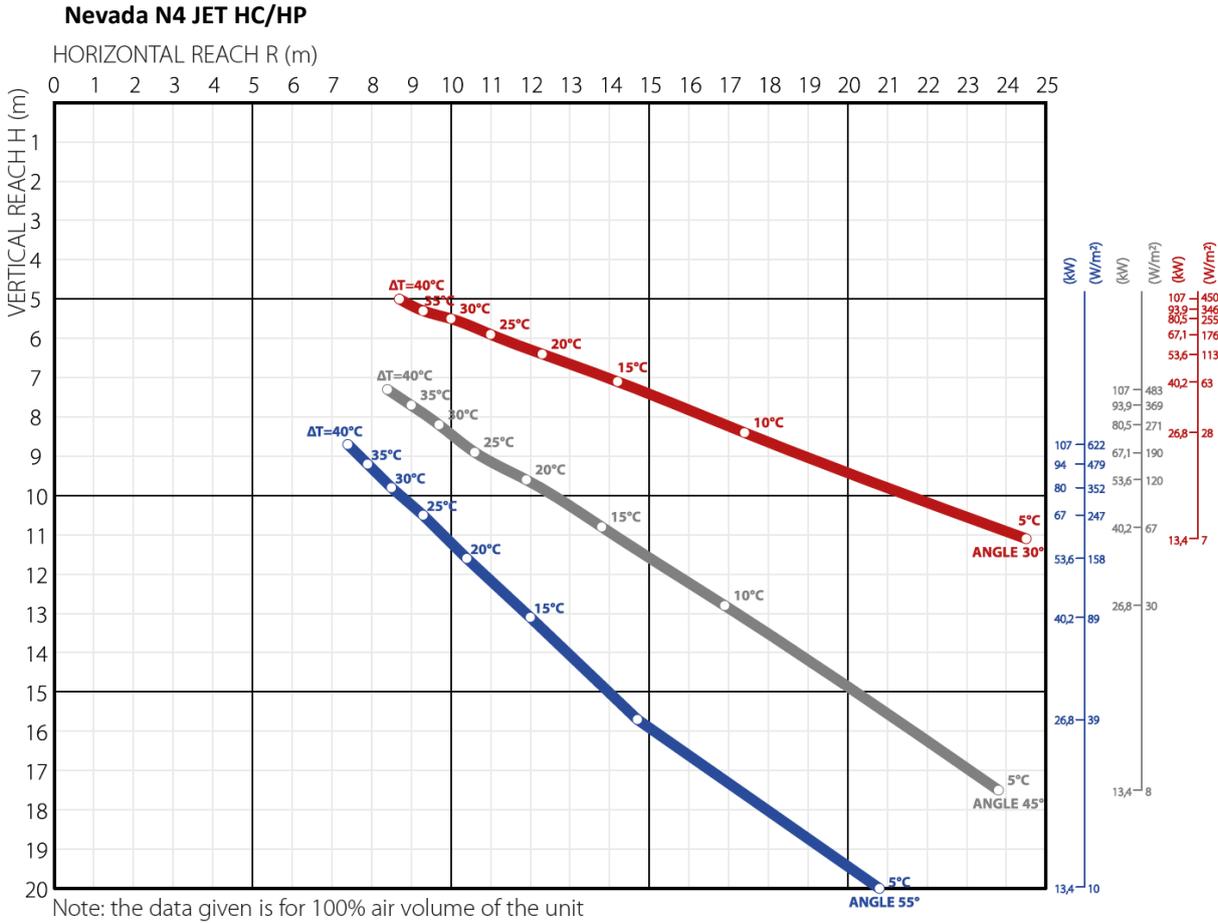
Nevada N3 JET HC/HP



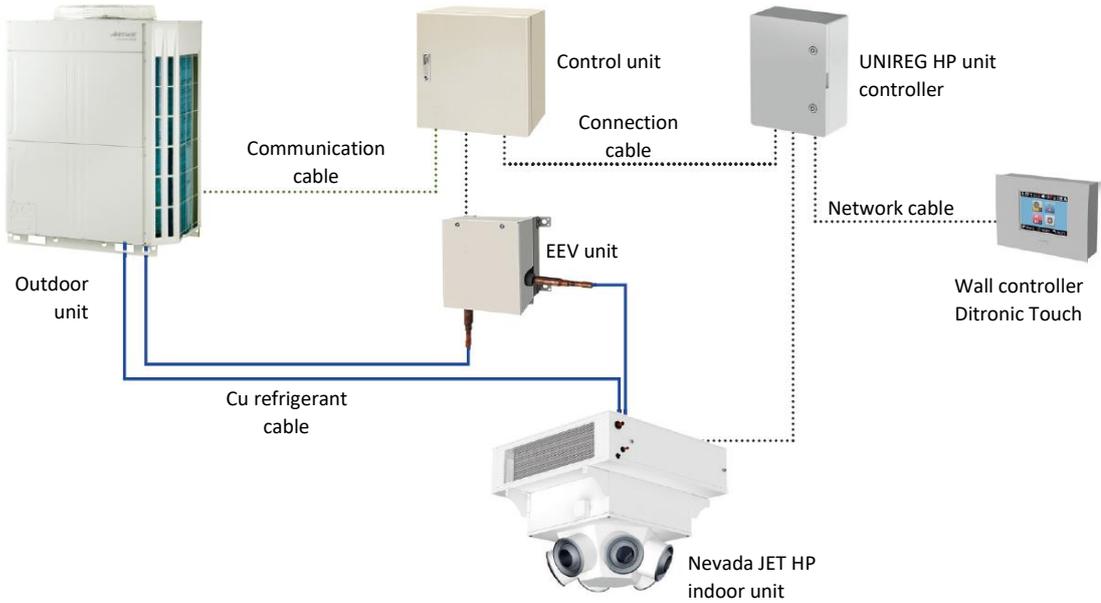
Exemplary graph reading:

- 1) Mounting height H unit is 6,8m.
- 2) Using the values in table on page 8, an optimum angle was selected, which is 45° in this exemplary case (grey curve).
- 3) Determination of the difference between suction (Ti) and exhaust (Ta) temperature. In the model case: 43,6-20=23,6 °C (ΔT = 20 °C).
- 4) Horizontal reach is 7,7 m (this is R radius). Average of floor area D = 2 x R. In this exemplary case it is 15,4 m.

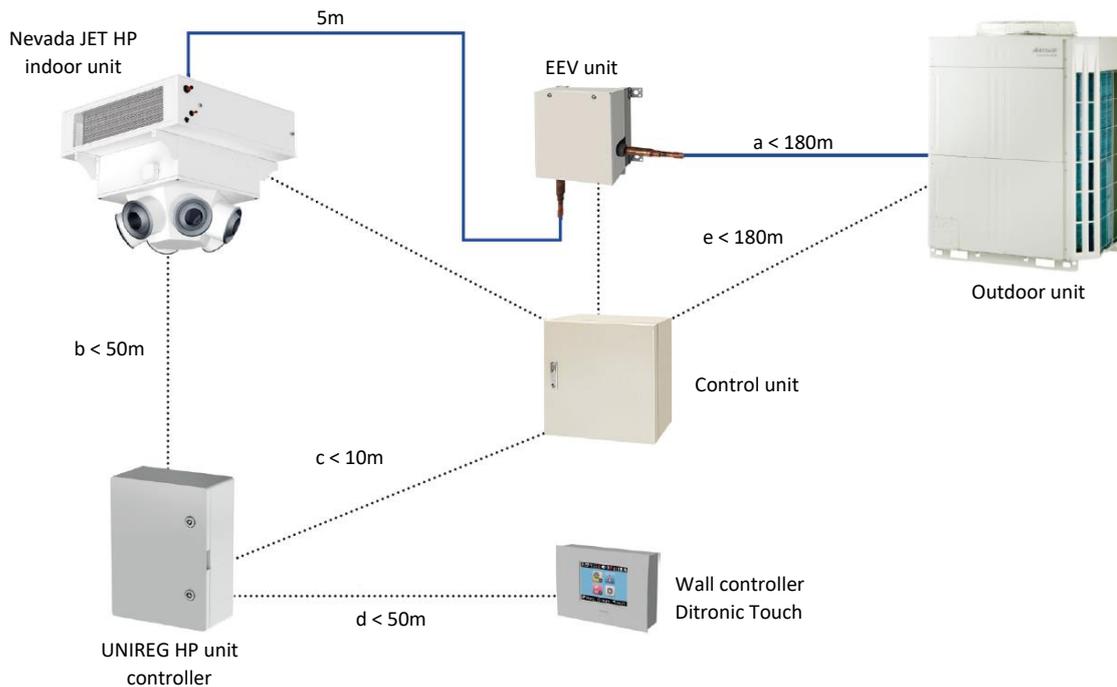
5) Heating output for said input values is 23,7 kW (surface area output 127 W/m²).



8. Technological scheme for connection of the Nevada JET HP unit



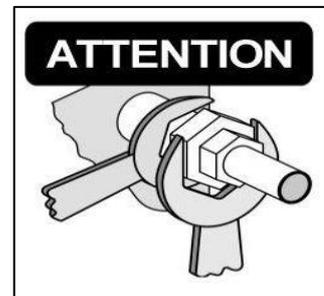
8.1. Length of the wires and tubes



9. Media distribution connection for Nevada JET HC

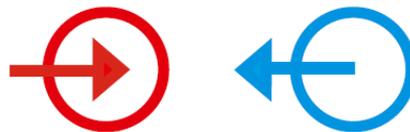


Please check all hot water connections for readiness and perfect condition before connecting media to the unit. Furthermore, please check the hot distribution for components or other measures to ensure zero transmission of static, dynamic, and dilatation forces at the input and output neck connections. No excessive force may be applied when connecting the hot water circuit of the building to the unit's heat exchanger. By the neck of the air conditioner there is a mark that notes use of two keys so that no stressing of the necks occurs in the course of tightening or loosening. **When bolting and tightening up the screw union of the heat exchanger must be secured by a clamp against undesired rotation that may subsequently result in deformations or damage to pipe necks on the heat exchanger.**



Any non-compliance with the instructions above results in rejection of any complaint.

The hot water heater necks are usually located on the left hand side of the unit (when viewed from the interior). The inputs are identified by round marks – **medium input red** with arrow pointing inside, and **medium output blue** with arrow pointing outside.



Media input

Media output



Do not swap the return and supply neck positions - this may cardinaly change performance and parameters of the heater with consequent impact on the hydraulic system. Do not exceed max temperature and pressure for which the unit is rated. Neopomeňte připojit odvod kondenzátu.

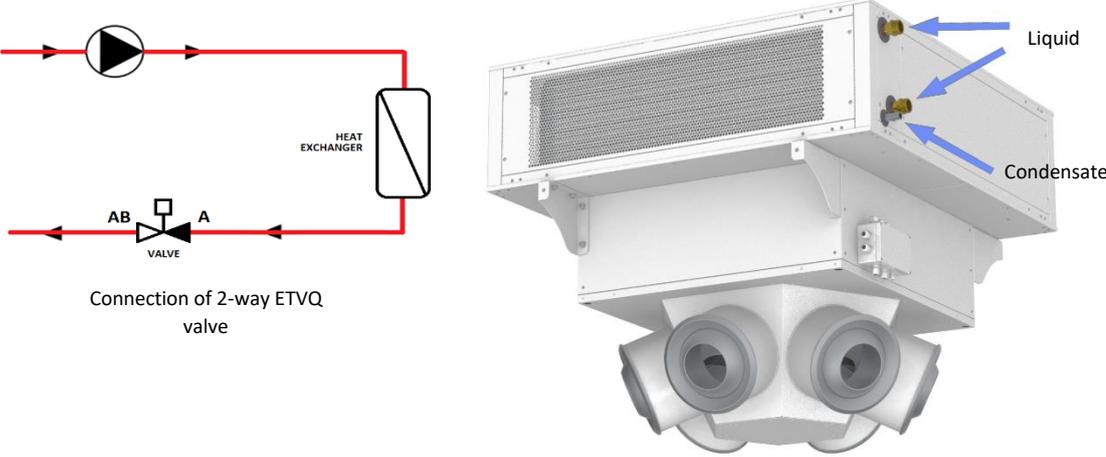
The function of the electrothermic valve drive is given by a control type. The connection is then made directly on the neck for media input. For electrothermic drive functions, refer to clause 9.1.

Pay attention to quality of media fed to the unit; check for installation of cleaning valve downstream the unit (not included in the supply). Observe max temperature and media pressure to avoid heat exchanger damage. To make sure the heat exchanger operates correctly, drain the exchanger (sludge valve) and purge the cleaning valve because construction or assembly impurities

may be present in the system. Deaerate the heat exchanger for perfect operation of the heat exchanger. Install the closing valves on both pipes downstream the unit (ball valves) . Connection thread near the unit must be removable and not fixed.

As required by the customer, a not embedded 2-way valve with control head can be delivered for the hot water heat exchanger. The valve drive is supplied electrothermic.

Instructions for electric connection of the valve is included in the wiring scheme for connection of the unit. Specific wiring scheme or valve instructions are available upon request only.



Model	Nevada N3 JET HC	Nevada N4 JET HC
Connection tube diameter	DN 32	DN 40

9.1. Heat exchanger control using a valve with an actuator

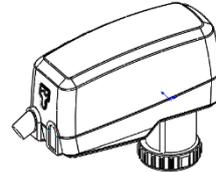
Electric actuator for the valve may be supplied for the water heat exchanger as non-embedded two-way one (ETVQ). Fully programmable binary input.

Execution version: I/O

Note:

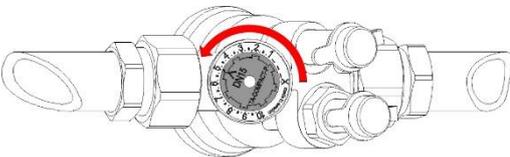
Opening time 65 s

Electric data: 24 VAC/VDC, 50/60 Hz, control signal 0-10 VDC, IP 54.



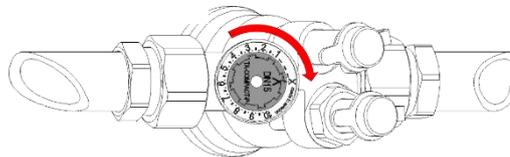
9.2. Setting of independent valve flow pressure DN 32 (ETVQ)

Setup



Turn the setting wheel to required value, e.g., 5.0.

Closing



Turn the setting wheel counterclockwise to position X.

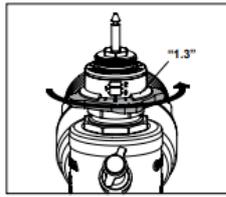
q_{max} values

	Setup									
	1	2	3	4	5	6	7	8	9	10
DN 32	800	1220	1620	2060	2450	2790	3080	3350	3550	3700

q_{max} = l/h for each setting with the control cone fully open

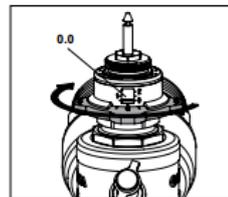
9.3. Setting of independent valve flow pressure DN 40 (ETVQ)

Setup



Turn the setting wheel to required value, e.g., 1.3.

Closing



Turn the setting wheel counterclockwise to position 0.0.

q_{max} values

	Setup												
	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0
DN 40	1000	1240	1530	1840	2200	2570	3020	3450	3960	4550	5200	5800	6500

q_{max} = l/h for each setting with the control cone fully open

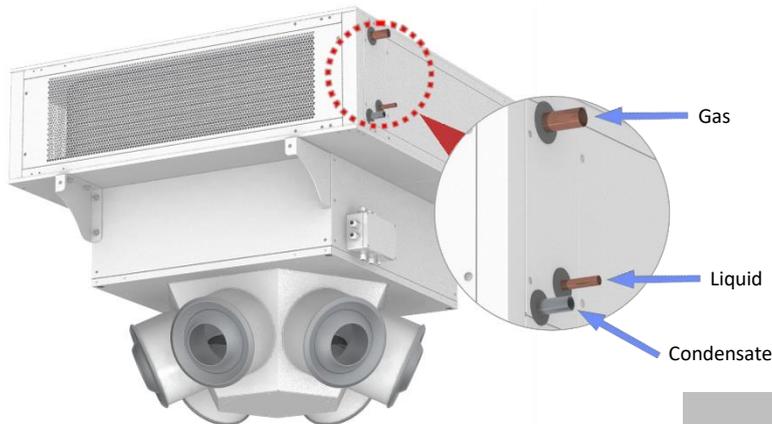
10. Media distribution connection for Nevada JET HP



Please check all connections for readiness and perfect condition before connecting media to the unit. Weld the tubes with the unit under nitrogen atmosphere. If you do not use nitrogen, an oxidation layer will form on the pipe and it may reduce performance of or damage the unit. Do not forget to connect condensate removal. Use R410A coolant only according to recommendations of the manufacturer.

Any non-compliance with the instructions above results in rejection of any complaint.

Only qualified expert from cooling engineering may perform the connection works.



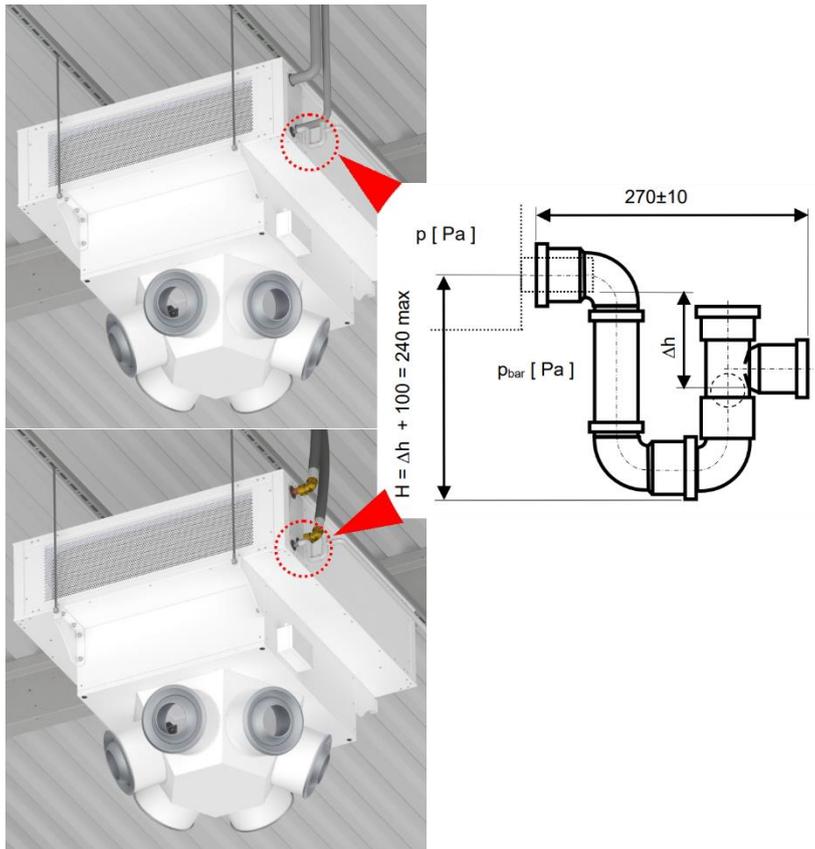
Model	Connection tube diameter (mm)	
	Kapalina	Plyn
Nevada N3 JET HP	14	28
Nevada N4 JET HP	14	28

For connection of the outdoor unit, refer to a separate manual.

11. Under-pressure trap connection

An under-pressure trap needs to be installed on the condensate output for proper removal of the condensate. The under-pressure trap must include a ball that serves as a check valve for proper operation of the trap not flooded with water. The trap must be installed in gas impermeable manner on the unit (rubber sleeve). For making the under-pressure higher, the vertical portion with the check valve (ball) may be rotated left or right hand side – not more than 15° from the horizontal plane. The other portion of the trap (fit onto the unit) should remain vertical.

Minimum Δh for correct operation of the condensate removal is 30mm.



12. Electric connection of the unit



The heating/cooling unit must be protected by a suitable circuit breaker according to its electric parameters – refer to attached electric wiring. Use the cable wires with cross section suitably rated according to the current load – refer to electric wiring documentation. The connection clamps are accessible on the side part of the unit after the cover of the electric installation cabinet is screwed off. Connect the ready-to-install cables to the terminals following the attached electric wiring schemes, make connection check, equipotential bonding, and finally turn the power supply on.

Make sure the cable is neither twisted nor deformed in any way. Keep free ends of the cable wires sufficiently long for easy handling and cut the wire only after you are sure the wire is long enough.



Observe generally applicable national provisions, particularly ČSN 12 2002 and other related regulations. Unplug the unit from mains before any service intervention. Provisions of ČSN 332190, 332000-5-51 ed. 3, and 33 2000-5-54 ed. 3 must be observed for connecting and earthing of the electric devices. Qualified electrician only may perform any electric service works (qualification according to Section 6 of Decree of ČBU No. 50/78 Coll.).

During assembly, carefully check everything and carry out the initial review of the device. Check operation of the FU1-FU3 electric fuses (Ditronic) for interior circuits (for fuse values, refer to the box of electronics), and make sure that the external components (accessories), which may have an essential impact on correct function of the device, operate.

ATTENTION: The delivery note serves as a warranty sheet!

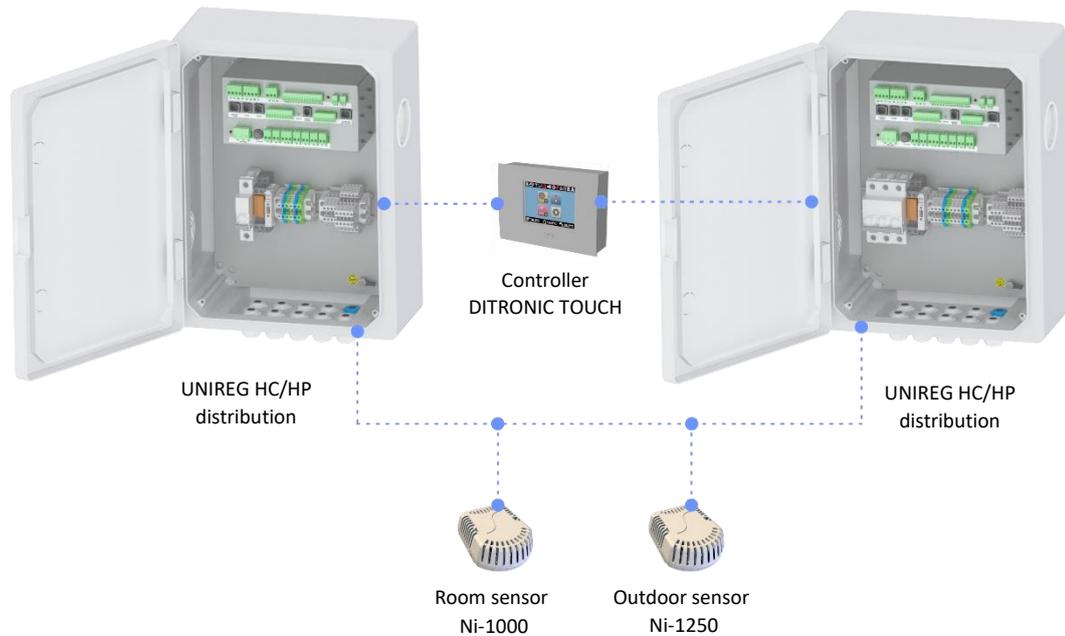
For electric connection of the outdoor unit, refer to a separate manual.



13. Types of controllers and options for controlling

13.1. UNIREG HC/HP

Unireg is the distribution board suitable for control of heating unit with EC fans 230V (Nevada N3 JET HP) and 400V (Nevada N4 JET HP, Nevada N4 JET HC) where integration of the controller into the unit is not possible. The distribution board is suitable for wall mounting. The system permits the use of all functions offered by Ditrionic Touch controller. The selection of an appropriate Unireg type must consider the power input of the unit in question. For Ditrionic controller operation, refer to specific user manual. The controller is intended for wall-mount installation. Included to the controller are the Ni-1000 room sensor and Ni-1250 outdoor sensor to be connected to the control board according to the electric wiring documentation.



Type of control	UNIREG – DIT 2-HC/HP	UNIREG – DIT 2-HC/HP 400V
For max unit current	14 A	6 A
Unit power supply	230 V	400 V
Control signal	0-10 V	
Revolutions control levels	0-100 %	
IP rating	IP 20	
Dimensions (length x width x height)	300x400x170 mm	

13.2. EX MODBUS

EX MODBUS is a control module for EC fan speed control via MODBUS. The module is suitable for wall mounting. One Nevada JET HC/HP unit may be connected to one EX MODBUS unit. The selection of an appropriate EX MODBUS type must consider the power input of the unit in question.

Type of control	EX MODBUS	EX MODBUS
For max unit current	0,25 A	0,25 A
Unit power supply	230 V	400 V
Control signal	0-10 V	
Revolutions control levels	0-100 %	
IP rating	IP 65	
Dimensions (length x width x height)	275x220x140 mm	



14. Commissioning, starting of the unit



Before commissioning make and check:

- covers and shell of the unit are in perfect condition,
- mechanic fixing and anchoring of the unit,
- correct connection of media and tight connections,
- availability of power voltage,
- correct connection of all unit cables,
- fitting and setting of a pre-circuit breaker (not included in the device),
- free from mechanical impurities or objects.

Initial review of the electric appliance according to ČSN 331500 and ČSN 33 2000-6-61 ed. 2 must be made upon commissioning.

15. Optional accessories - depending on equipment level



The most frequent accessories include electrothermic valves for the temperature control (chapter 9.1). The valves are supplied as **not embedded**, for all available valve types refer to the catalogue. The function of the electrothermic valve drive is given by a control type.

An optional accessories may be e.g., room thermostat, outdoor thermostat, hanging of the unit, and more. Selection of an appropriate type of accessories must be supported by the controller type.

For all accessories offered for the Nevada JET HC/HP unit, refer to the catalogue documentation.

16. Basic service and maintenance information



All units are thoroughly checked and tested by the manufacturer before dispatch. The most frequent errors root from misunderstanding of the unit function or incorrect cabling and connection. For this, observe instructions from the manufacturer to avoid complex troubleshooting. In no case try to operate the unit when connected in a different way - the unit may operate for a while as you wish or expect but this irreversible step may result in damage beyond repair and loss. No warranty claims can be accepted with respect to this damage.

The Nevada JET HC/HP heating/cooling units are supplied **without a filter** in front of the heat exchanger in standard, and therefore, special attention needs to be paid to the heat exchanger condition check. The regularity of checks depend on environment in which the device is operated. The heat exchanger and fan are accessible after the covering sheets on the suction box are removed.



Before any work with the unit, disconnect the electric power supply, mains supply for the unit. Electric shock hazard!!!

Observe generally applicable national provisions, particularly ČSN 12 2002 and other related regulations. Unplug the unit from mains before any service intervention. Provisions of ČSN 332190, 332000-5-51 ed. 3, and 33 2000-5-54 ed. 3 must be observed for connecting and earthing of the electric devices. Qualified electrician only may perform any electric service works (qualification according to Decree of ČBU No. 50/78 Coll., § 6 is required).

Please contact your vendor or distributor for a service agreement. You will get regular service and excellent care of your unit.



Quarterly checks:

- Unit hanging and tightening of all bolt connections.
- Re-test tightness of the unit or of installed fittings on the medium side.
- Check cleanliness of the suction grids on the suction box and inner or outer parts of the unit. Do not wash the motor body with water! Wipe with lukewarm towel only – motor winding damage hazard; after the motor is cleaned, do not turn the unit on for at least 60 minutes – let the unit dry. Use vacuum cleaner to remove dust from the suction grid.
- Check unit safety with respect to electric shock hazard according to applicable ČSN or national standards, including earthing inspection.



16.1. Troubleshooting

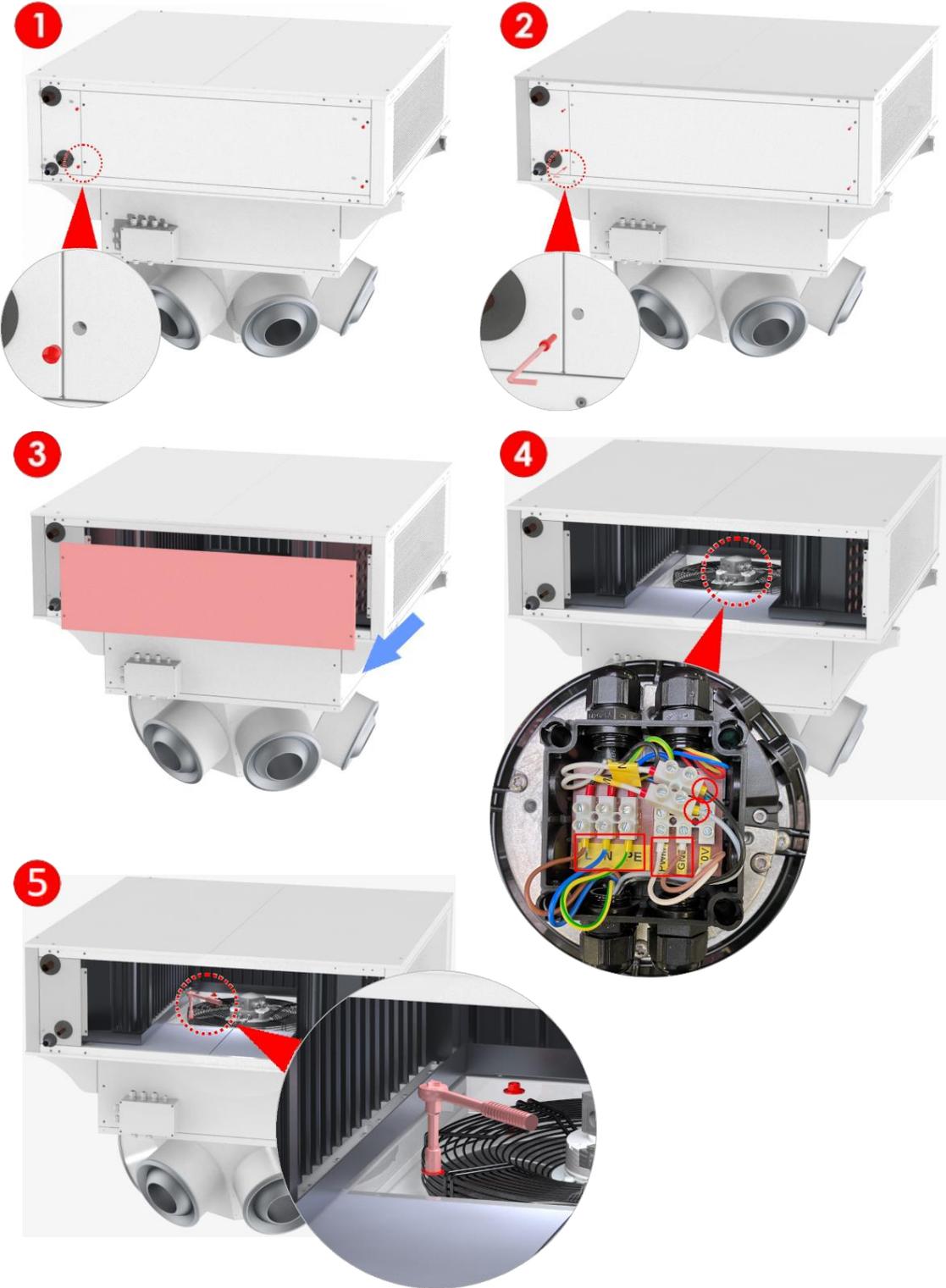
Problem	Possible cause	Remedy
The unit cannot be turned on	Unit circuit-breaker is off	Turn on
	Mains failure	Inspection
	External contact*	Check connection or interconnection
Noisy motor	Defective motor bearing	Check - replacement
Motor overheats	Defective motor bearing or winding	Replace fan unit
	Heavily soiled motor – insufficient cooling	Check, clean
	Excessive temperature of intake air	Inspection
The fan delivers little air only	Soiled suction grid of the fan	Check – clean
The unit does not heat	Broken or clogged medium supply	Check - replacement
	Little air flows through the heat exchanger	Check - remove
	Insufficient media temperature	Remove
	Medium does not circulate	Check, deaerate
	Temperature achieved in line with controller setup	Controller setup
	Defective drive of electrothermic valve *	Check setup, or replace if defective
Automatic operation disconnection	Overheated motor	Find out and clear the cause
	External clock	Check correct function (refer to controller description)

* if installed

16.2. Fan disassembly

The fan is located inside the suction extension. To replace the fan, follow the illustrated and described steps.

1. Remove plastic plugs from the inspection lid of the suction extension (Fig. 1).
2. Use the Allen wrench to loose the bolts that lock the lid (Fig. 2).
3. Remove the lid (Fig. 3).
4. Disassemble the wiring cabinet lid on the fan and disconnect all cables from the terminals. Prior to disconnection, note the sequence of the connected wires to avoid mismatch upon reconnection. Take out the wires from the wire cabinet and release to the fan cage (Fig. 4).
5. Disassemble the nuts holding the fan and remove it (Fig. 5).



17. Decommissioning – disposal



After the expiration of the service life, the unit must be disassembled and disposed of. Only qualified company may disassemble the device. The product or components thereof must be disposed in environmentally-friendly manner at the end of its service life.

The components of the unit must be separated and sorted out by type of material for disposal. Dispose of the metal and plastic components at your local collection yard. The transport packaging of the product is made of common recyclable material (paper, polyethylene, wood) and is labelled as such according to ČSN 77 0052-2.

As far as disposal is concerned, it is operator's responsibility to comply with applicable national provisions in the country of use. In addition, follow regulations and laws of your country applicable to waste disposal. Separated collection and recycling of the products may help to protect environment and human health.

18. Important notes



The heating/cooling units are designed to compensate heat loss and heating or cooling. Other uses are not intended. The manufacturer accepts no liability for damage resulting from use other than intended. Observe this manual in operation of the units.

Installation, electric connection, and repairs must be carried out by qualified persons according to § 6 of Decree No. 50/78 Coll. or according to applicable national standards and regulations. An expert company is needed to connect the heating medium.

The manufacturer reserves right to changes for marketing or production reasons without prior notice!



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