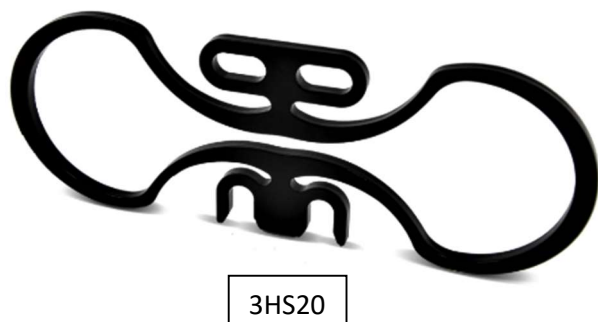


InfiniSpring® – Heat Pump Floor Stand



3HS20

Product Description

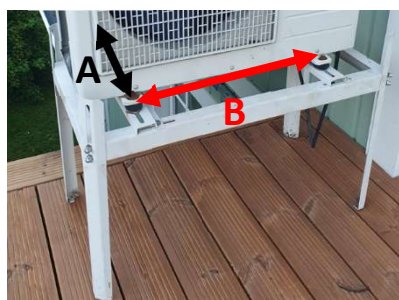
Connection	5 mm screws
Wood	E.g. 48x48 tai 48x98
Outdoor Unit Weight	30-60 kg (3HS20)
ISOLATORS	
Name	3HS20 Isolator
Amount	3 pcs
Material	Steel
Surface treatment	Paint or galvanized
Natural Frequency	< 13 Hz
Operating Temperature Range	-40 - +200 °C
Reaction to fire (EN 13964)	Class A1
Durability (EN 13964)	Class B
Environmental impact (EN 13964)	No

DESCRIPTION

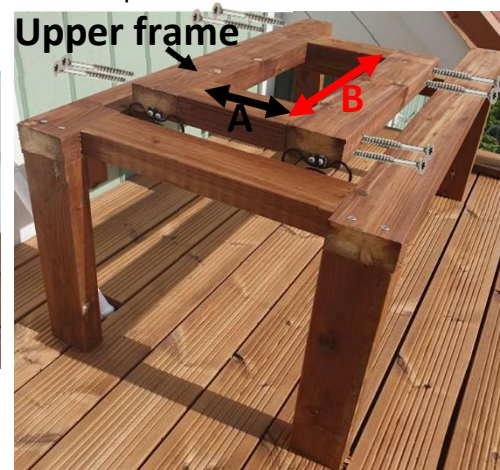
This document instructs heat pump/air conditioner outdoor unit floor stand building using either 3HS10 or 3HS20 isolators. *Outdoor units for heating and cooling can be equipped with 3HS20 isolators. Outdoor units for cooling can be equipped with 3HS10 isolators.* Isolators have very high noise and vibration isolation performance.

Installation

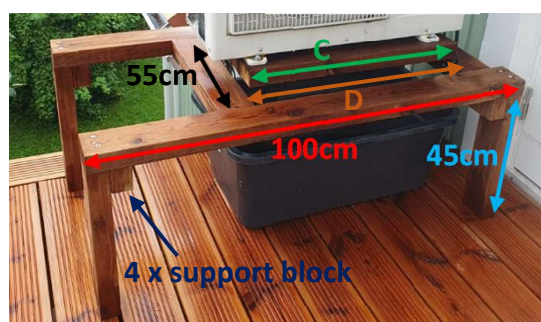
1. Measure outdoor unit fixing location distances **A** & **B**. See **picture 1**.
2. Build the upper frame, which fits into fixing locations **A** ja **B**. (Note for heating units: melting water need to be able to drain freely → make **A**-measure bigger than outdoor unit width). Connect wooden parts using 5x140 mm sunk head wood screws. Two sunk head wood screws each connection and 8 wood screws in total. See **picture 2**.
3. Build the lower frame and connect **longitudinal wooden parts (100cm)** to **transversal wooden parts (55cm)**. Make the inner dimension of **transversal wooden parts 14 mm** longer than the **upper frame outer dimension C** to leave space for the isolators: **D=C+14mm**. Position transversal wooden parts to suitable locations of the frame. Use 5x140mm sunk head wood screws, 8 pieces. See **pictures 3A & 3B**.
4. Build foots to lower frame or wall mounting. Picture 3 show floor stand with foots, where **foot**s are installed to **lower frame corners (45cm)** and corners also have **support blocks**. Use 5x140mm sunk head wood screws for the foots, 8 pieces and use 5x90mm sunk head screws for the support blocks, 8 pieces. See **picture 3A**.
5. Outdoor unit end with the cooling pipes is heavier and two sets of isolators are installed to this end. Lighter end without the connections is equipped with one isolator. See **pictures 5 & 8**.



Picture 1: Fixing locations A, B



Picture 2: Upper frame



Picture 3A: Lower frame with dimensions



Picture 3B: Space for the spring and washers is 7 mm at both ends, 14 mm in total

Note! Dimensions in the picture 3A do not match with the actual dimensions and in the picture. Longitudinal beams are longer in the picture 140 cm vs instructed 100 cm and transversal wooden parts are 45 cm vs 55 cm. Using the dimensions recommended in this document the floor stand fits for typical household outdoor units. Below the outdoor unit there is also room for a plastic container (~35x50x80cm) recommended for the heating unit melting water.

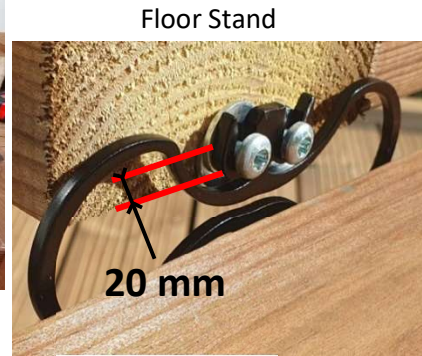
6. Mark all isolator screw locations using a pencil to lower and upper frames. All screw locations can be positioned to a **20 mm distance from the wooden part edge**, **pictures 5 & 6**.
7. Install 5x40mm pan head wood screws using two M5 washers to all previously marked locations (lower and upper frames). Screw thread can be left visible (~15 mm) to enable installation of the isolators in the next step.
8. Install isolators to lower frame. Washers are installed between the isolator and lower frame to allow gap between the isolator and lower frame. Tighten the pan head wood screws, but do not over tighten (washers can sink into the wood). See **picture 5**.
9. Lift the upper frame and install it on top of the isolators. Washers are installed between the isolator and upper frame to allow gap between the isolator and upper frame. Tighten the pan head wood screws, but do not over tighten (washers can sink into the wood). See **pictures 6 & 7**.
10. Outdoor unit is lifted on top of the upper frame and installed using 10x50mm head screws and washers. See **pictures 3A & 10**.
11. *Recommendation with new outdoor units is to install cooling pipes using a 360-degree bend at the outdoor unit end. This makes the outdoor unit installation flexible, and isolators eliminate structure borne noise efficiently. See **picture 8**.*
12. *Lower frame can be also used as a frame for an outdoor unit cover. See **picture 9**.*

(Note: installation is shown for 3HS20 isolators, but installation is steps are same for 3HS10 isolators.



Picture 5. Isolator locations

Note! Lower frame foots have not been installed according to the instruction and they are missing from the picture.



Picture 6. Isolator installed, two M5 washers between the isolator and frame in all locations



Picture 7. Upper frame installed on top the isolators

Note! Lower frame foots have not been installed according to the instruction and they are missing from the picture.



Picture 8. Outdoor unit heavier end and 360-degree bend to allow flexibility



Kuva 9. Outdoor unit cover

INSTALLATION ACCESSORIES

Isolators: 3 pcs

Wood: 48x48 or 48x98 wood, altogether around 8 meters

For the floor stand: 2x55cm (transversal parts + 4x45cm (foots) + 2x100cm (longitudinal parts) + 4x10cm (support blocks) + 4x~50cm (upper frame, more exact dimensions are informed in instruction points 1 & 2)

Screws for the frame parts: 5x90mm sunk head screws ~ 8 pcs

5x140 mm sunk head screws ~ 24 pcs

Screws for the outdoor unit: 10x50mm head screws & M10 washers 4 pcs

Isolator screws: 5x40 mm pan head screws 12 pcs, M5 washers 24 pcs

MANUFACTURER

Labrys Oy / InfiniSpring

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Picture 10. Finalized floor stand from above (Longitudinal beams are longer in the picture 140 cm vs instructed 100 cm)