

# HAVA Monosplit Outdoor Unit

## HHSE Series



### Enhanced capacity through multi-unit integration

The Twin, Triple and Quadruple configurations allow multiple outdoor units to operate together in a unified system, functioning as a simplified mini-VRF architecture. This design is ideal for larger areas or applications requiring increased capacity and balanced airflow distribution.

## Efficiency engineered for every season

The HHSE outdoor unit is engineered to support exceptional seasonal performance, enabling SEER values of up to 7.50 for A++ cooling efficiency. In heating mode, it allows an average SCOP of up to 4.60 (A++), while the warm-climate SCOP reaches up to 5.40, corresponding to A+++ performance.

With an EER of up to 4.41 W/W and a COP of up to 4.50 W/W, the outdoor unit ensures high efficiency in both cooling and heating operation, contributing to reduced energy consumption throughout the year.

## Extended operating conditions

The HHSE outdoor unit is engineered to operate reliably across a broad range of environmental conditions, supporting cooling from  $-15\text{ }^{\circ}\text{C}$  up to  $52\text{ }^{\circ}\text{C}$  and heating from  $-20\text{ }^{\circ}\text{C}$  up to  $24\text{ }^{\circ}\text{C}$ .

For precise operating limits, please refer to the specification table for the corresponding model.





### **Full DC technology**

The HHSE outdoor unit features Hisense Full DC technology, combining a DC inverter compressor, a DC outdoor fan motor, and a high-precision electronic expansion valve (EEV). This fully DC-driven architecture delivers excellent efficiency both at full capacity and during part-load operation, ensuring stable, responsive and highly efficient performance across a wide range of operating conditions.

### **Engineered for reliable thermal stability**

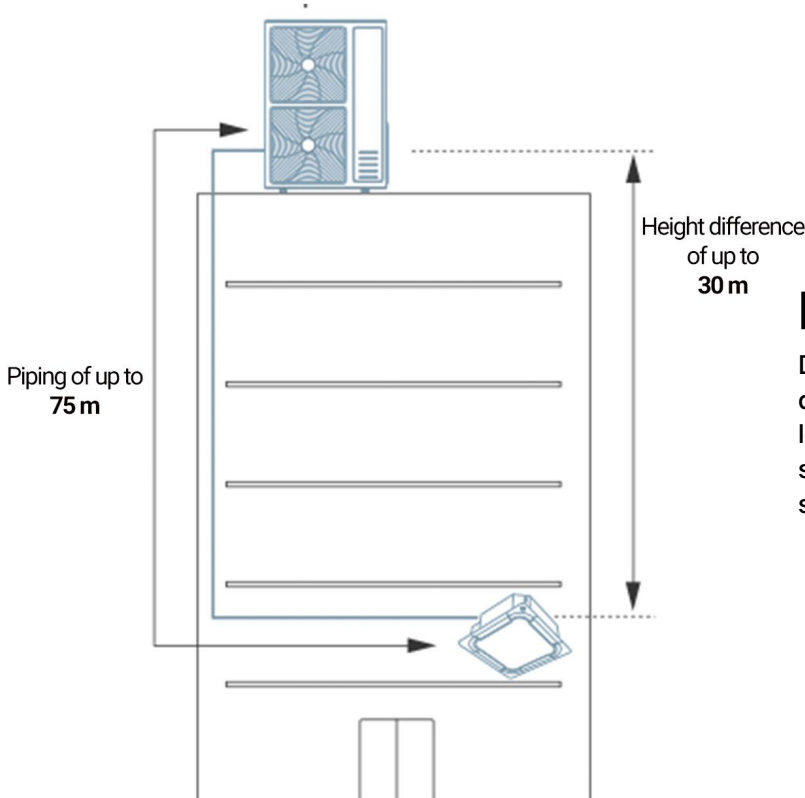
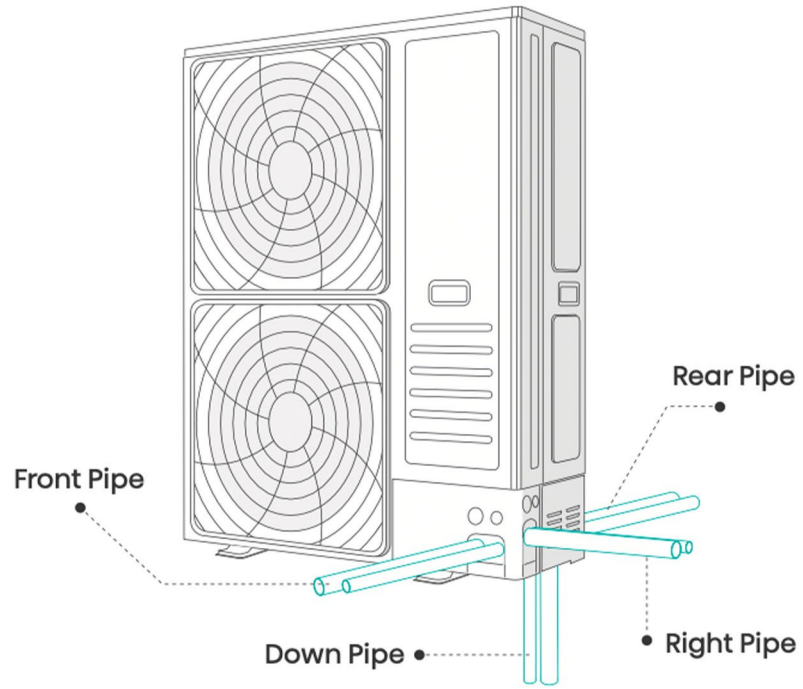
The HHSE outdoor unit uses a refrigerant-cooled design to efficiently remove heat from the electrical control box. By relying on the refrigerant circuit for thermal management, the unit ensures reliable cooling of electronic components, preventing overheating in demanding applications. This advanced approach maintains stable, efficient operation even in high ambient temperatures or harsh outdoor conditions.

### **Sustainability through R32**

The HHSE outdoor unit operates with R32 refrigerant, chosen for its strong environmental profile and enhanced energy efficiency. With a Global Warming Potential (GWP) of just 675—less than one-third of R410A's 2088—R32 provides a more sustainable refrigerant solution while supporting superior overall performance. The system automatically triggers error Error code E96 is automatically activated and operation stops when refrigerant levels fall below a safe limit, ensuring reliable and secure R32 performance.

## Integrated stop valve with four-direction piping

The integrated stop valve enables four-direction refrigerant piping—front, rear, right, and bottom—delivering enhanced installation flexibility and a clean, visually refined finish.



## Extended piping range

Designed to accommodate demanding installation conditions, the HHSE outdoor unit supports refrigerant piping lengths up to 75 m and vertical separation up to 30 m, ensuring dependable performance even in complex or large-scale system layouts.

Technical specifications

# HAVA PAC

HHSE-26/35/52U4S/J8 in combination with HHXCPC-26/35/52 and HHXD-26/35/52 products

Model				HHSE-26U4S8	HHSE-35U4S8	HHSE-52U4J8
Outdoor unit	Dimension	W×H×D	mm	810×580×280	810×580×280	860×670×310
	Weight	Net/Gross	kg	34/38,5	34/38,5	44/48
	Sound Level (SPL)	Hi	dB(A)	51	51	53
	Sound Level (PWL)	Hi	dB(A)	62	62	64
	Sound Level (PWL)	Level	-	C	C	C
	Refrigerant	Type	-	R32	R32	R32
		Amount	kg	0,87	0,87	1,20
		TCO2Eq	-	0,587	0,587	0,810
GWP		-	675	675	675	
Refrigerant piping	Liquid/ Gas		mm(inch)	Φ6,35/Φ9,52(1/4'/3/8')	Φ6,35/Φ9,52(1/4'/3/8')	Φ6.35/Φ12.7(1/4'/1/2')
	Pipe length	Max. equivalent T1 Climate	m	35	35	55
	Pipe length	Max. equivalent Full Range	m	30	30	50
	Height difference	Max. (OD lower)	m	15	15	30
		Max. (OD higher)	m	15	15	30
	ADD Refrigerant AMOUNT		g/m	15	15	15
	PIPE LENGTH FOR ADDITIONAL Refrigerant		m	5	5	5
Operating Range (Outdoor)	Cooling		°C	-15~52	-15~52	-15~52
	Heating		°C	-20~24	-20~24	-20~24