G01 · HEAT RECOVERY UNITS

AS-HRU

Commercial Heat Recovery Units



AS-HRU heat recovery units are intended for energy-efficient and environmentally conscious projects. Each unit combines efficient cross-flow heat exchangers with efficient plug fans and offers plug-and-play installation.

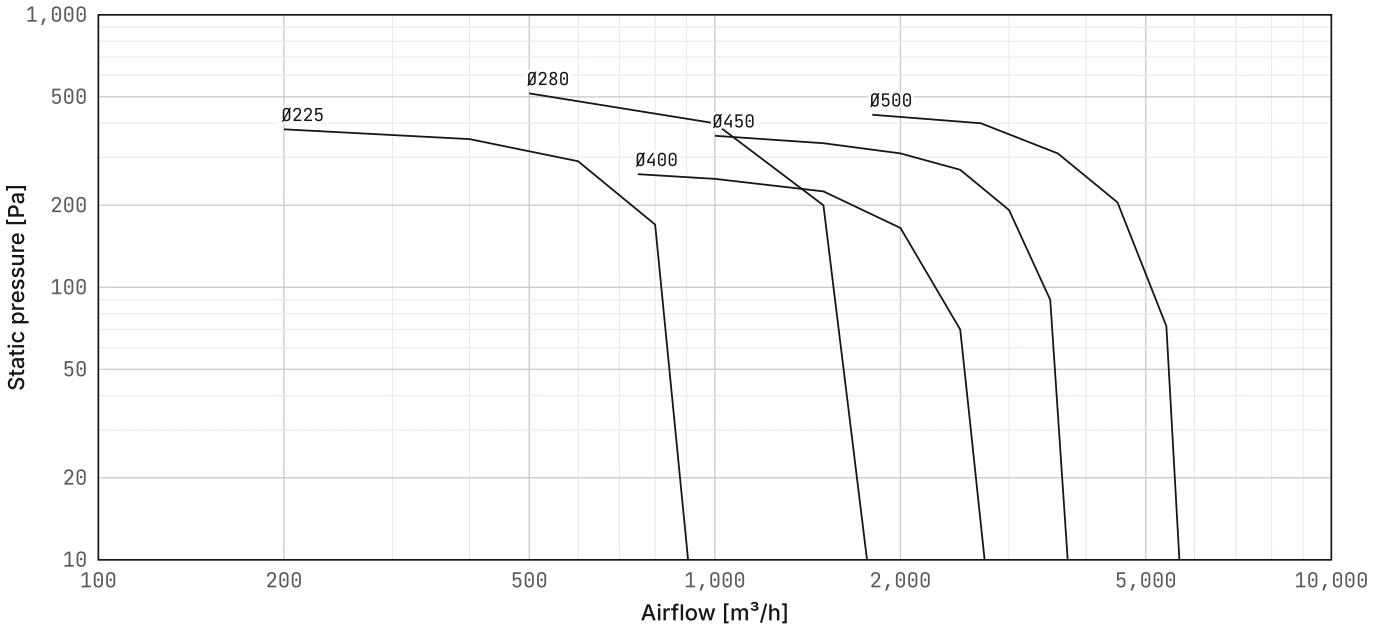
The cabinet-type casing is made of galvanized sheet steel with round duct connections for in-line installation in the ductwork. The direct-driven centrifugal plug fans have aluminium impellers, balanced to ISO 1940-1, in sizes from Ø225 to Ø500 mm.

The 2- or 4-pole external-rotor fan motors run on a 230 V single-phase supply, with IP44 protection and class F insulation, rated for S1 and S2 duty. Versions for 50 Hz and 60 Hz supplies are available. Operating air temperature: −20 °C to +50 °C. Standards: IEC 60335-2-80, ISO 1940-1.

AIRFLOW UP TO	STATIC PRESSURE UP TO	IMPELLER Ø	MOTOR POWER
6,000 m³/h	590 Pa	225 – 500 mm	0.06 – 1.1 kW
SPEED	**SUPPLY**	**TEMPERATURE CLASS**	**MOTOR**
1,380 – 2,850 min⁻¹	230 V 1~ · 50 Hz	50°C	IP44 · F

Selection chart

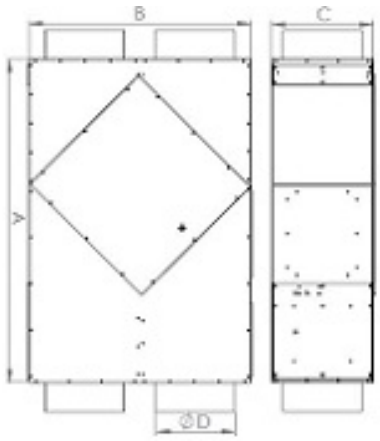
50 Hz · Static pressure at 1.204 kg/m³ with the standard motor.



Technical data 50 Hz

Model	Ø [mm]	Motor [kW]	Speed [min⁻¹]	Supply	I [A]	Max. airflow [m³/h]	Max. pressure [Pa]	LpA 1 m [dB(A)]
AS-HRU 10	225	0.06	2,668	230 V 1~	0.6	1,000	420	50
AS-HRU 20	280	0.08	2,850	230 V 1~	1.1	2,000	590	48
AS-HRU 30	400	0.21	1,465	230 V 1~	1.1	3,050	280	49
AS-HRU 40	450	0.69	1,410	230 V 1~	0.8	4,000	390	51
AS-HRU 50	500	1.1	1,380	230 V 1~	1.5	6,000	487	58

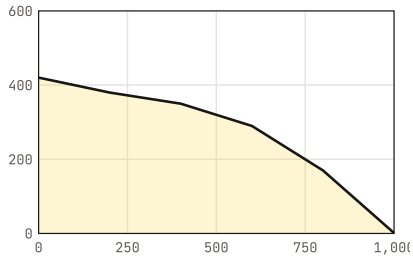
Dimensions [mm]



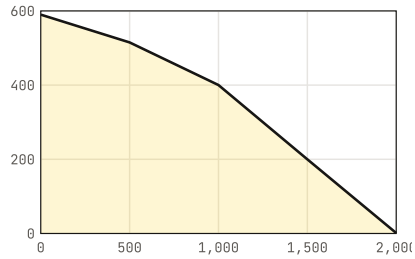
Model	A	B	C	D
AS-HRU 10	967	760	320	250
AS-HRU 20	1,150	980	405	305
AS-HRU 30	1,540	1,130	505	355
AS-HRU 40	1,650	1,130	520	400
AS-HRU 50	1,850	1,230	550	450

Performance curves Static pressure [Pa] vs airflow [m³/h], standard motor, 1.204 kg/m³.

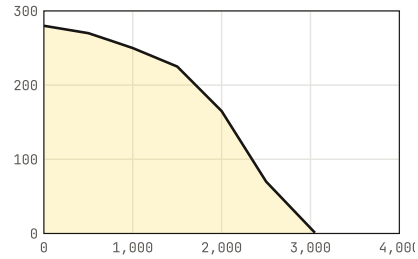
AS-HRU 10 2,668 min⁻¹ · 0.06 kW



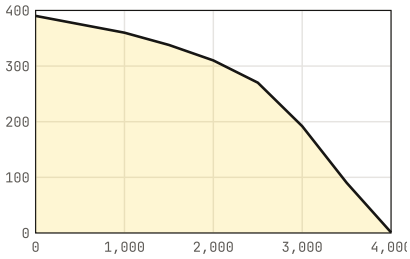
AS-HRU 20 2,850 min⁻¹ · 0.08 kW



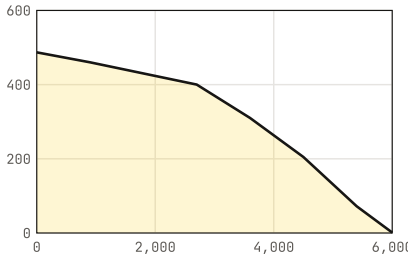
AS-HRU 30 1,465 min⁻¹ · 0.21 kW



AS-HRU 40 1,410 min⁻¹ · 0.69 kW



AS-HRU 50 1,380 min⁻¹ · 1.1 kW



Sound power level Lw [dB] per octave band

casing radiated · 63–8000 Hz

Model	63	125	250	500	1k	2k	4k	8k	Total	LpA 1 m [dB(A)]
AS-HRU 10	36	47	62	61	62	60	57	52	**68**	50
AS-HRU 20	34	45	60	59	60	58	55	50	**66**	48
AS-HRU 30	35	46	61	60	61	59	56	51	**67**	49
AS-HRU 40	37	48	63	62	63	61	58	53	**69**	51
AS-HRU 50	44	55	70	69	70	68	65	60	**76**	58

Notes

Sound pressure level at 1 m (free field) from the AEROMIS product database.
5 model(s) also available for 60 Hz — see the fan selector.
Full performance, acoustic octave bands, motor options and datasheets: AEROMIS fan selector.