



NORDcanopy HU Steam canopy WASHER LINE

Solutions for dishwashing areas

Replacement room air provided through front panel

"AirGrip" air intake system

Energy efficient LED lights

HACCP certified (no. I-PE-106-ETS-R4-01)

www.nordcooking.com

General

The NORDcanopy product portfolio consists of canopies and related air treatment products for use in commercial and industrial kitchen ventilation to create a comfortable and hygienic work environment.

Our products combine stylish design with highly effective grease, steam, heat and odor removal performance for your project.

We at ETS Nord know that no projects are exactly alike. We have designed our canopies to be modular, so we can custom design and manufacture a NORDcanopy solution to meet your each and every project requirement or technical need.

NORDcanopy products are manufactured from stainless steel according to standards EVS-EN 10088- 2:2014, EN 1.4301 or AISI 304 (AISI 304, surface 2K).

HACCP International certifies the equipment as food-safe and suitable for use in food facilities that operate in accordance with a HACCP based Food Safety Programme.



HU Steam canopy WASHER LINE



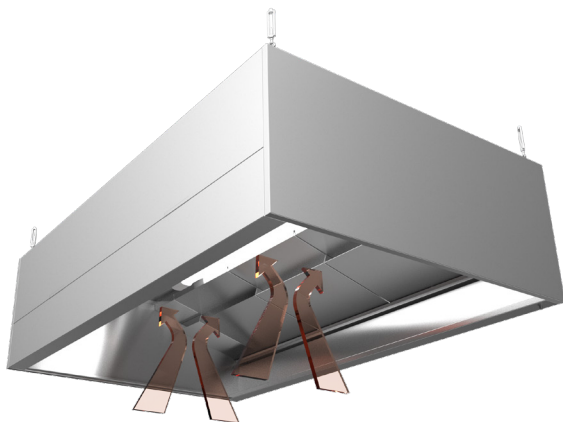
HU is a solution for dishwashing areas. A professional kitchen canopy designed to continuously remove steam and moisture from the dishwasher line and keep the room temperature constant.

This product is best suited to kitchens with a high moisture load.

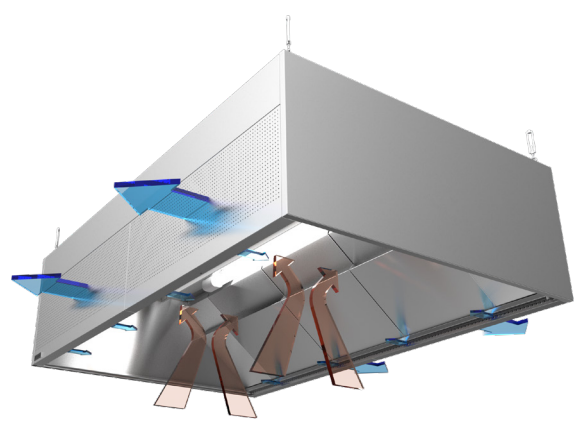
Canopy construction complies with the standard EN 16282-2 Equipment for commercial kitchens – Kitchen ventilation hoods; design and safety requirements.

Function

- Warm steam vapour rises from the dishwasher into the canopy where it condenses on the surface of condensation plates. The water droplets formed then flow down the internal surface and into the collection channels and drain pipes.
- The condensation plates are removable for easy cleaning as desired.



HU without supply air



HU with supply air

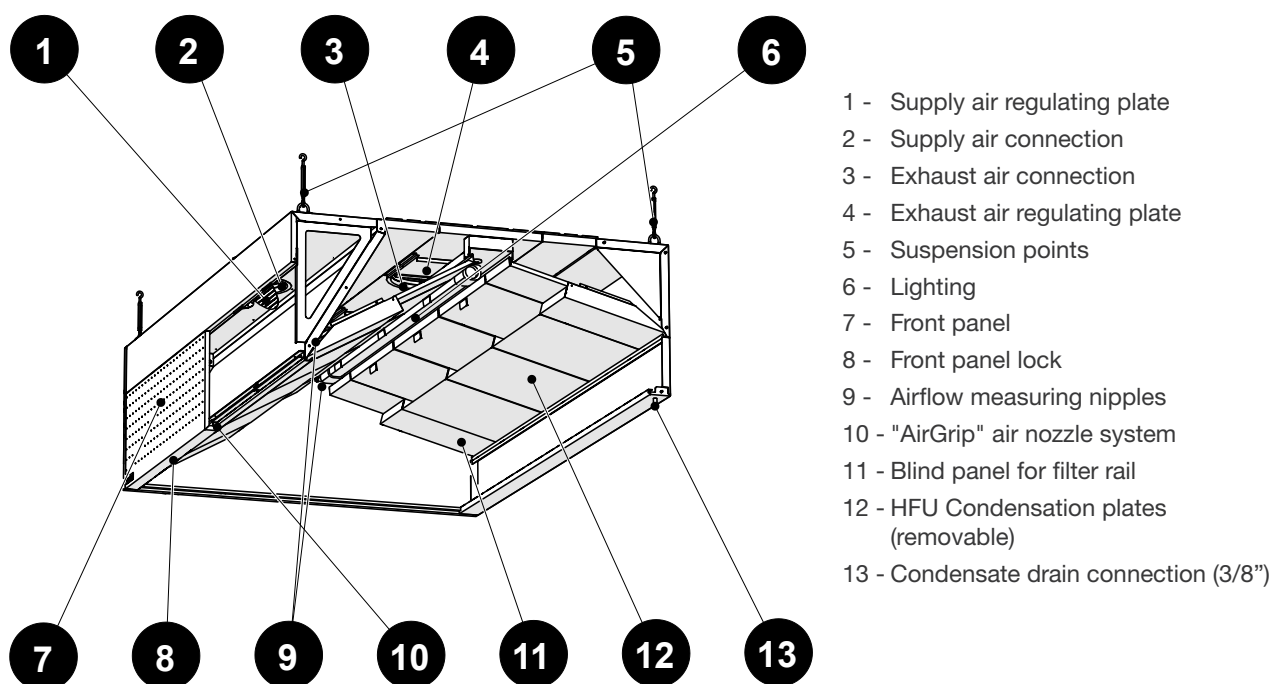
Recommended Data

Exhaust airflow

The maximum recommended air volume through a single 315 mm exhaust connection is 300 l/s, which corresponds to a duct velocity of 3,8 m/s.

Supply airflow	Perforation pattern		
	SPx1	SPx2	SPx3
Supply airflow (with "AirGrip" air nozzle system) per linear meter of panel, l/s	10-61 Pa 71-175 l/s	10-40 Pa 110-220 l/s	10-28 Pa 165-275 l/s

Construction



- The canopy is made from stainless steel (AISI 304, surface 2K).
- Duct connections are equipped with rubber gaskets.
- Supply air chambers are heat insulated to prevent condensation of steam on the inner surface of the canopy.
- Easy-to-clean surfaces.
- Access to the chamber to enable cleaning of the supply pipes is ensured through the easy-to-remove front panel of the canopy. Exhaust pipes can be connected and insulated via the removable ceiling panel.
- A modular canopy is supplied without partition walls.
- Adjustable suspension hooks are included. ETS NORD's shroud screw mounting allows a precisely aligned canopy despite any installation obstacles. The shroud screw mounting can be directed 360 degrees.

Lighting

Professional kitchens require functional lighting to ensure that employees have a safe and effective work environment. ETS NORD professional kitchen canopies use the next generation of energy-efficient recessed LED fluorescent lamps, which can save as much as 50% more energy compared to old technologies.

The size and number of light fixtures are determined by the size of the canopy, to ensure there is enough light output for the entire workspace.



Luminaries (standard), IP66

Section length (mm)	Luminaries	Lighting length (mm)	Energy use (W)	Light color	Color temperature (K)	Color rendering index (Ra)	Flux (lm)
$1000 \leq L < 1600$	LED770	769	17	840	4000	80	2250
$1600 \leq L < 1900$	LED1370	1350	41	840	4000	80	4900
$L \geq 1900$	LED1670	1669	54	840	4000	80	6750

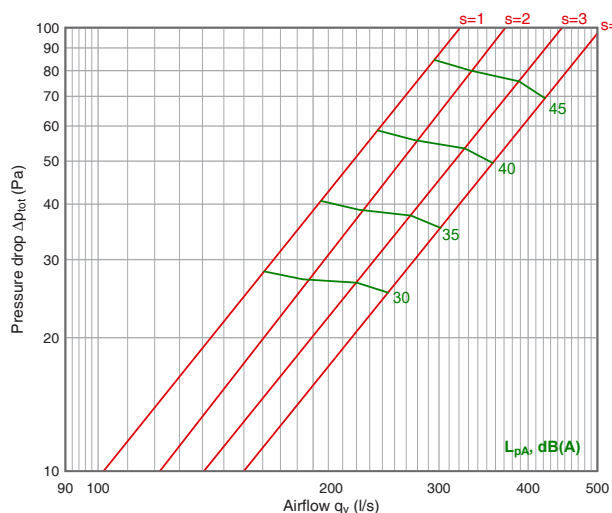
DALI LED luminaries, IP66

Section length (mm)	Luminaries	Lighting length (mm)	Energy use (W)	Light color	Color temperature (K)	Color rendering index (Ra)	Flux (lm)
$900 \leq L < 1500$	DALI750	750	14	840	4000	80	2000
$1500 \leq L < 1800$	DALI1350	1350	35	840	4000	80	5200
$L \geq 1800$	DALI1650	1650	48	840	4000	80	7150

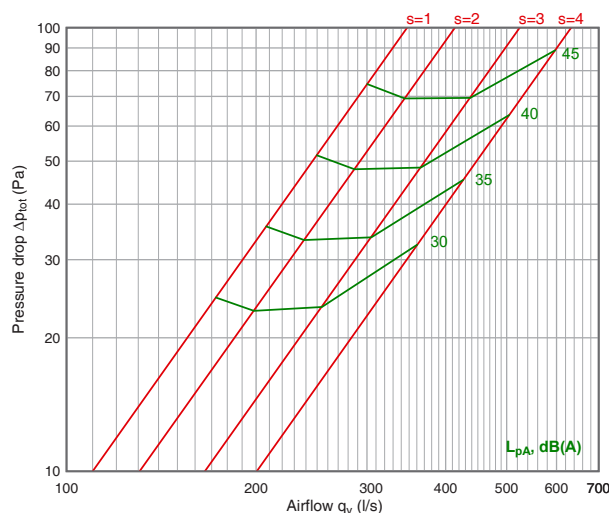
Technical data

The supply panels always contain the "AirGrip" air capture system.

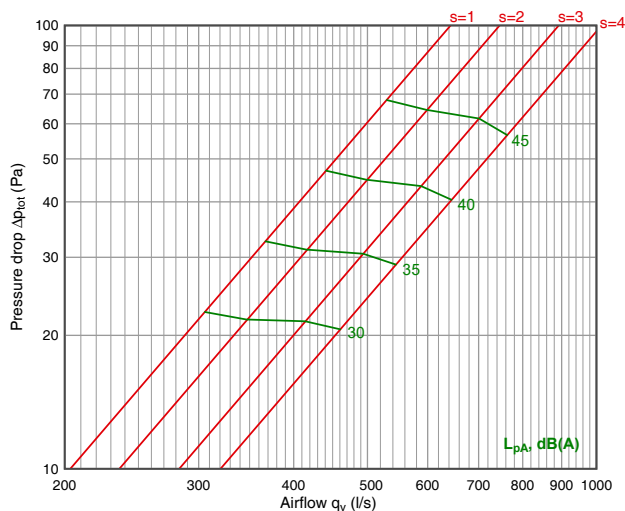
Exhaust air: HU L=1000...1400



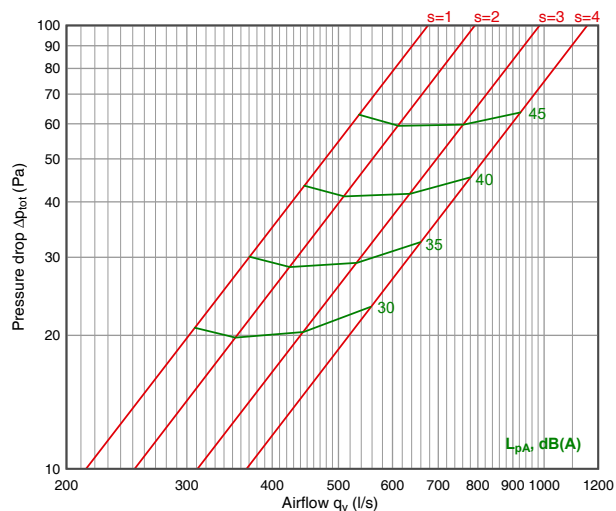
Exhaust air: HU L=1500...1900



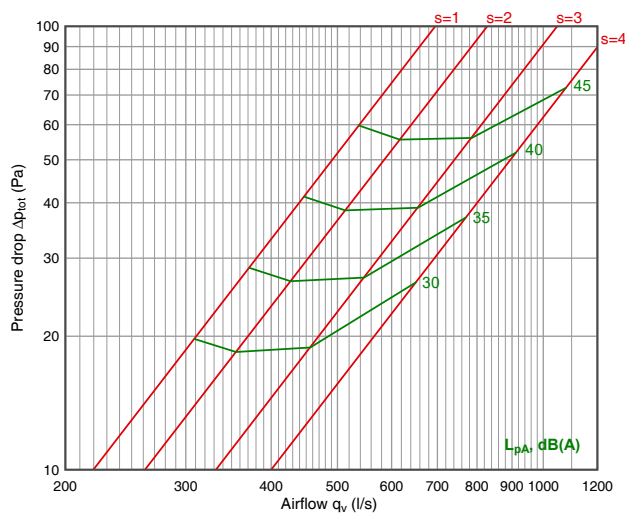
Exhaust air: HU L=2000...2400



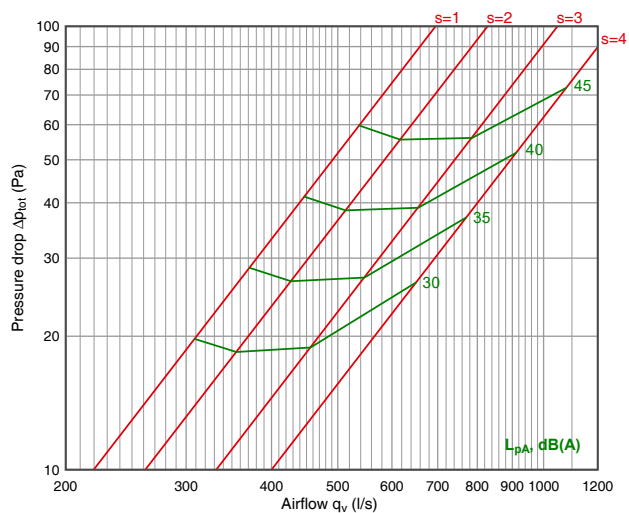
Exhaust air: HU L=2500...2900



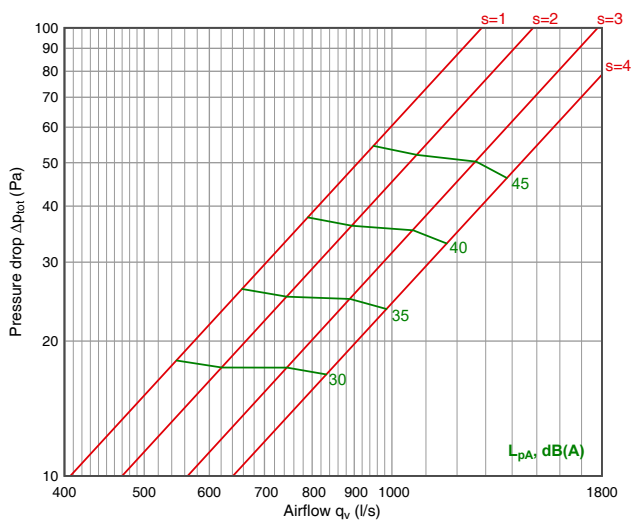
Exhaust air: HU L=3000...3400



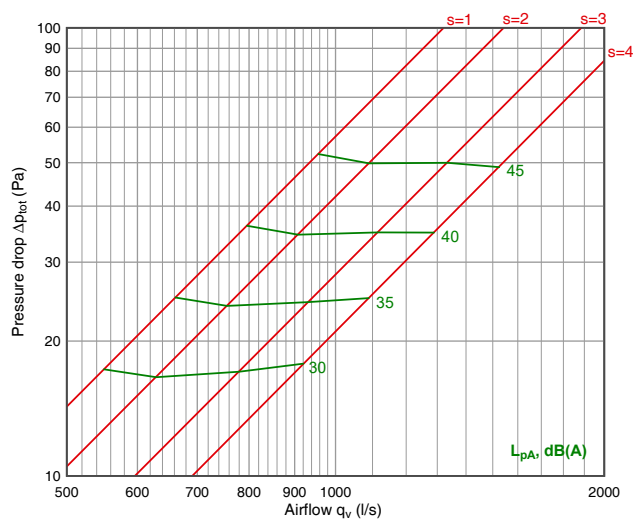
Exhaust air: HU L=3500...3900



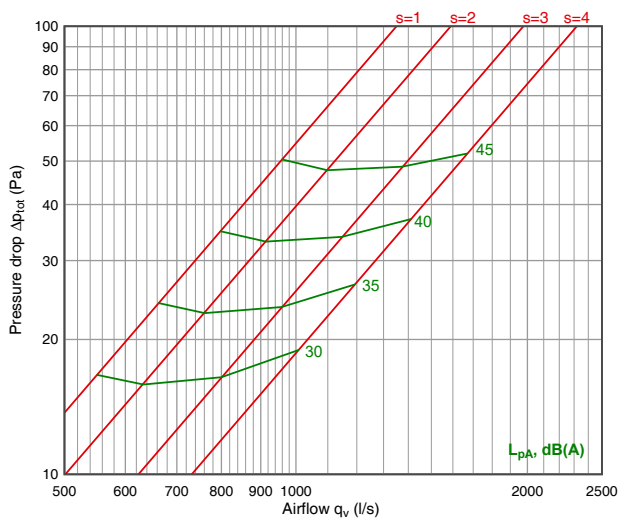
Exhaust air: HU L=4000...4400



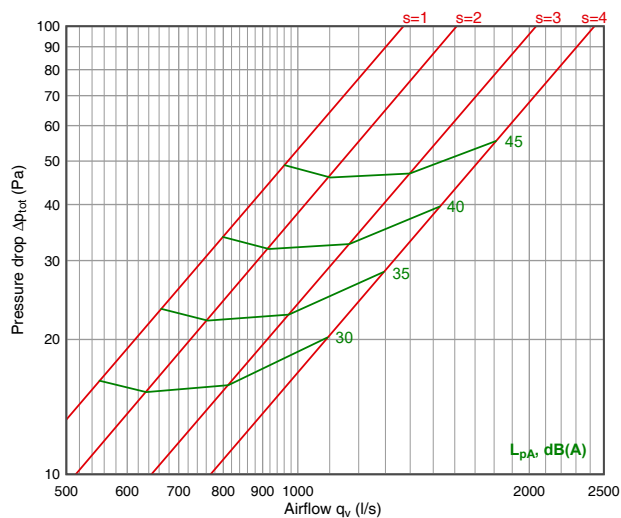
Exhaust air: HU L=4500...4900



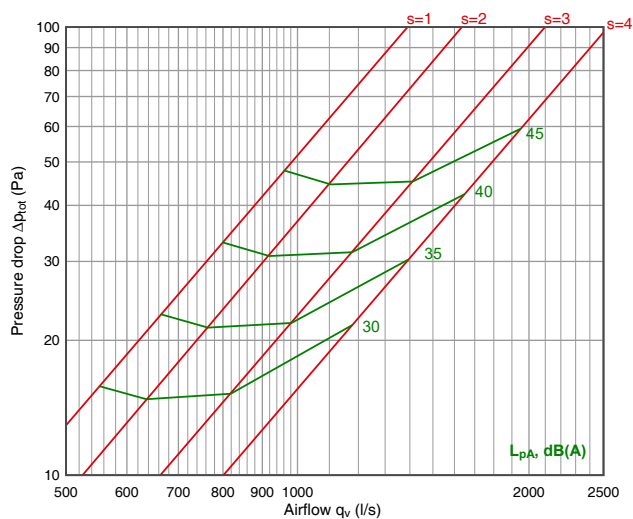
Exhaust air: HU L=5000...5400



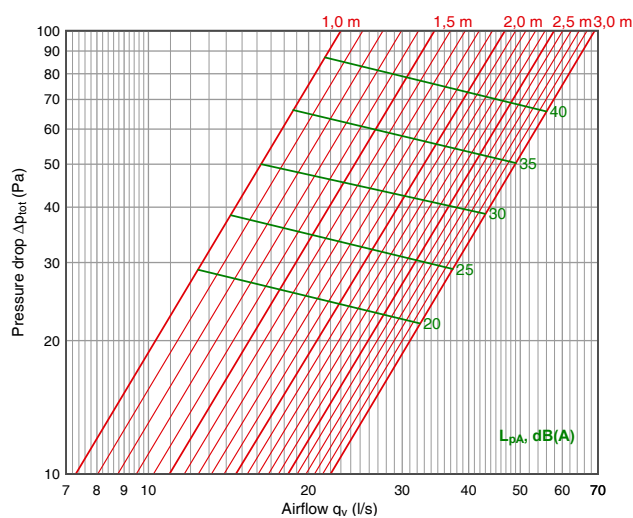
Exhaust air: HU L=5500...5900



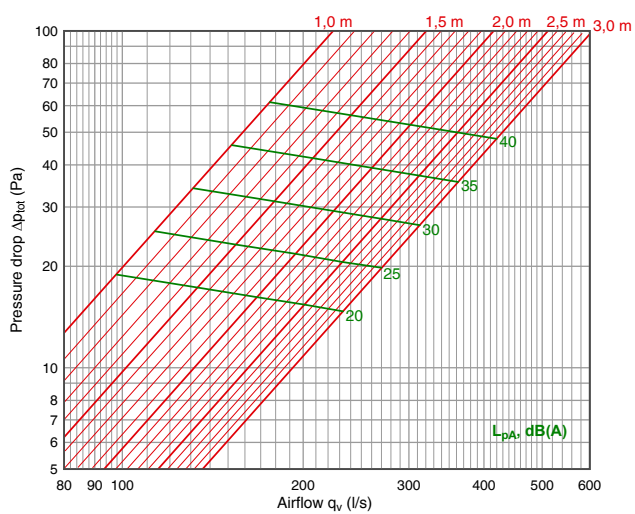
Exhaust air: HU L=6000



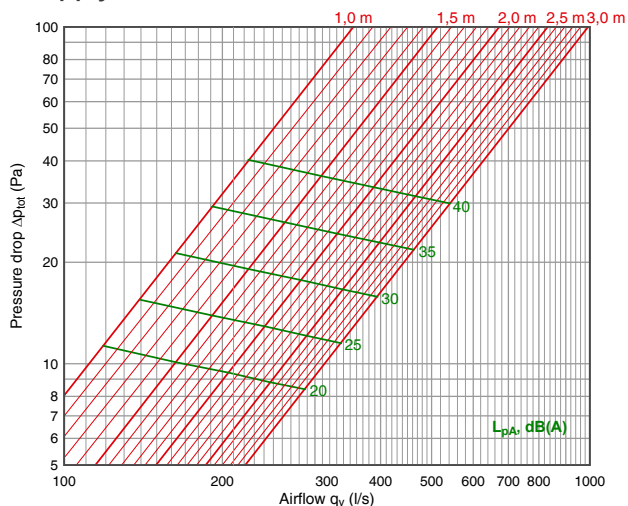
Supply air: "AirGrip"



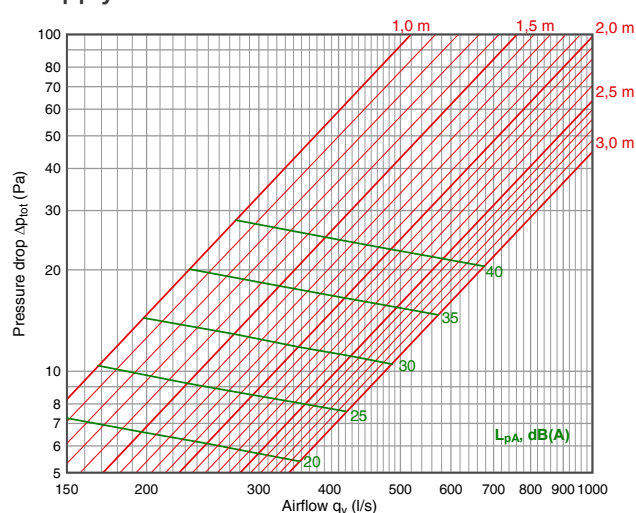
Supply air: SP1



Supply air: SP2



Supply air: SP3



Acoustic data

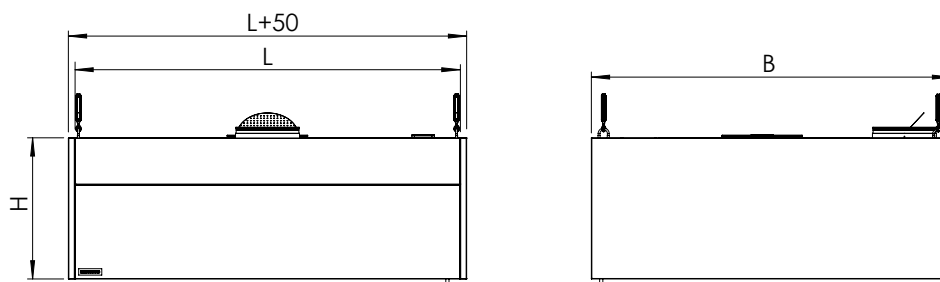
$$L_w = L_{p10A} + K_{okt}$$

Exhaust air Adjusting plate position	Correction of sound level K_{okt} (dB)							
	(Hz)							
	63	125	250	500	1k	2k	4k	8k
s = 1	10	12	6	3	-4	-13	-22	-24
s = 2	11	12	6	3	-3	-10	-18	-22
s = 3	10	13	5	3	-3	-9	-16	-21
s = 4	10	13	5	3	-4	-8	-15	-20

Supply air	Correction of sound level K_{okt} (dB)							
	(Hz)							
	63	125	250	500	1000	2000	4000	8000
"AirGrip"	-6	-8	-5	-3	0	-1	-7	-20
SPx1	-1	0	3	2	-1	-3	-11	-23
SPx2	0	1	5	4	-1	-8	-20	-27
SPx3	7	5	6	4	-2	-13	-21	-30
	± 4 dB	± 4 dB	± 4 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB	± 2 dB

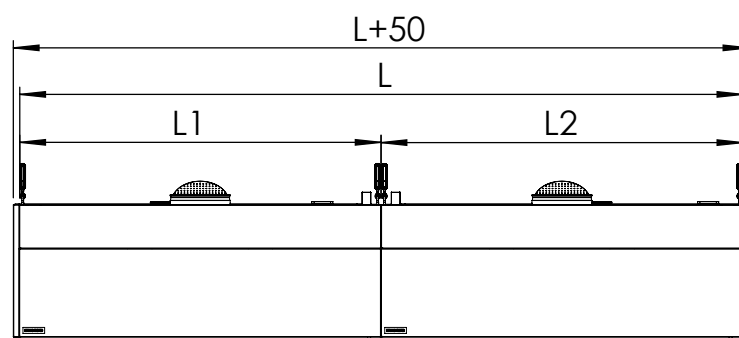
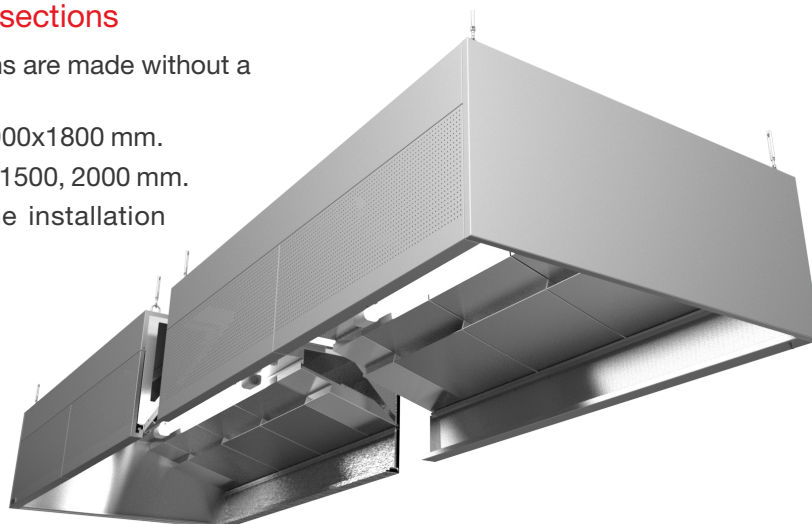
Dimensions

HU dimensions, mm	
L Length	1000, 1100, ..., 2400, 2900
B Width	1000 (available with Spot LED) 1000, 1100, ..., 1700, 1800
H Height	400, 550



Canopy lengthening with modular sections

- Canopies consisting of several sections are made without a partition wall.
- The maximum size of one section is 2900x1800 mm.
- Preferred length dimensions are 1000, 1500, 2000 mm.
- For connecting the sections see the installation manual.

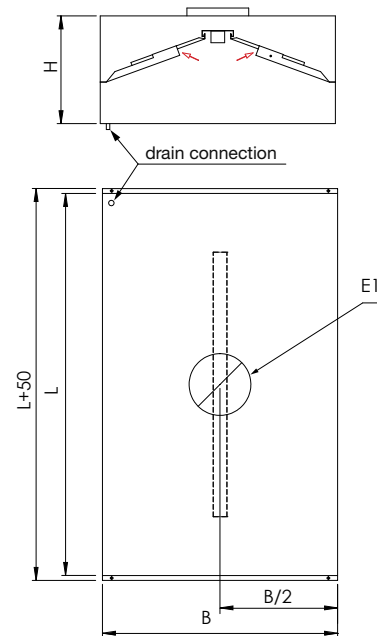


HU canopy, without supply air



Dimensions

L Length	1000, 1100, ..., 2800, 2900
B Width	1000, 1100, ..., 1700, 1800
H Height	400, 550
E1	200, 250, 315

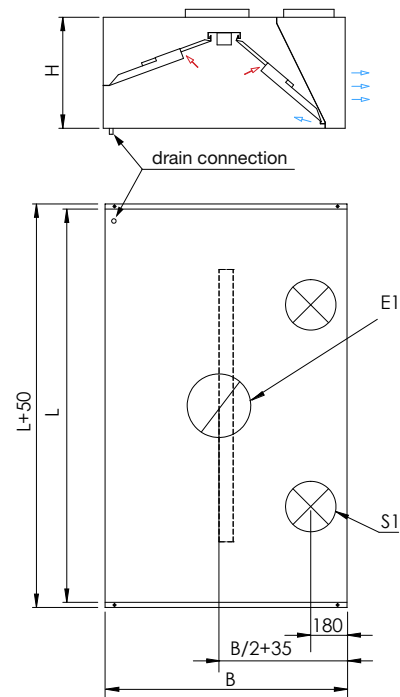


HU canopy, with one supply air chamber



Dimensions

L Length	1000, 1100, ..., 2800, 2900
B Width	1000, 1100, ..., 1700, 1800
H Height	400, 550
S1	160, 200, 250
E1	200, 250, 315

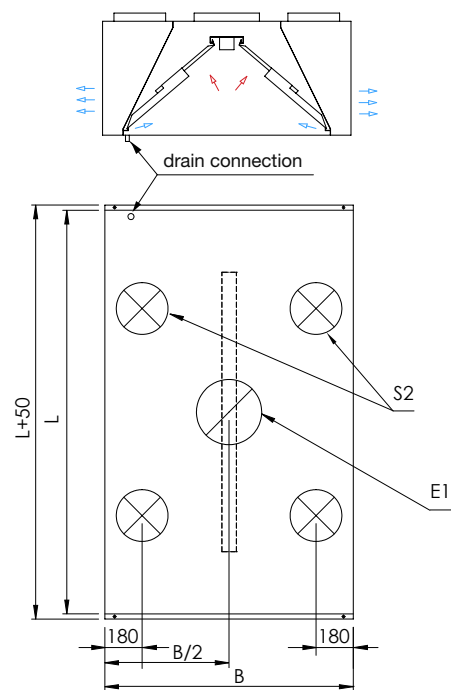


HU canopy island installation, with two supply air chambers



Dimensions

L Length	1000, 1100, ..., 2800, 2900
B Width	1400, 1500, ..., 1700, 1800
H Height	400, 550
S2	160, 200, 250
E1	200, 250, 315



Product marking

HU - aSAP - LxBxH - S1=dxn - E1=dxn - SPx0 - LED770xn

Marking

HU - Steam Canopy

aSAP

aSAP - a Self Assembly Package

Dimensions

L - Length

B - Width

H - Height

Supply air

S1 - Supply air chamber on one side

S2 - Supply air chambers on two sides

Ød - Diameter of supply air connection

n - Quantity of supply air connections

Exhaust air

E1 - One exhaust air chamber

Ød - Diameter of exhaust air connection

n - Quantity of exhaust air connections

Front panel

SPx0 - No Perforation, only "AirGrip" supply air curtain system

SPx1 - Perforation pattern 1 - (per L=1000mm) 130 l/s, 40 Pa, 40 dB(A)

SPx2 - Perforation pattern 2 - (per L=1000mm) 190 l/s, 37 Pa, 40 dB(A)

SPx3 - Perforation pattern 3 - (per L=1000mm) 250 l/s, 25 Pa, 40 dB(A)

Lighting

LED770 - L=769, 17W

LED1370 - L=1369, 41W

LED1670 - L=1669, 54W

DALI750 - L=769, 14W

DALI1350 - L=1369, 35W

DALI1650 - L=1669, 48W

n - Quantity of lighting fixtures

RAL Colour

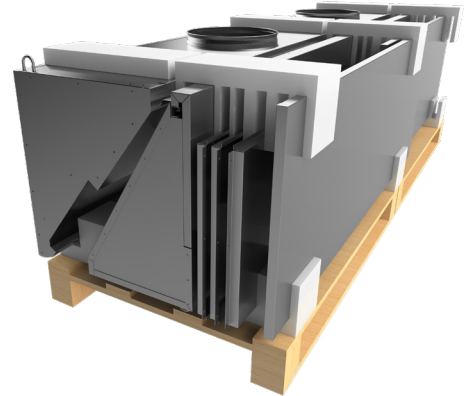
RAL colour, when coated

Example: HU 2000x1500x550 - S1=250x2 - E1=315x1 - SPx1 - LED1670x1

HU Options & Accessories

aSAP solution – a Self Assembly Package

- When access to the job site or kitchen space is limited, an ETS NORD aSAP self-assembly package can be the perfect solution.
- Narrow passageways and complex floor plans no longer get in the way!
- This is a compact, easy to ship, 5-step assembly version of our canopies to be put together at the job site.
- The canopy is delivered as ready-made modules with installation instructions.



CP Cover plates

Cover plates are made of stainless steel (AISI 304, surface 2K).

Cover plates are mounted in the area between the canopy and ceiling, when conduits and other components are to be concealed.

- CP-F – Front plate
- CP-B – Back plate
- CP-L – Left plate
- CP-R – Right plate





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*Let's move the air **together!***