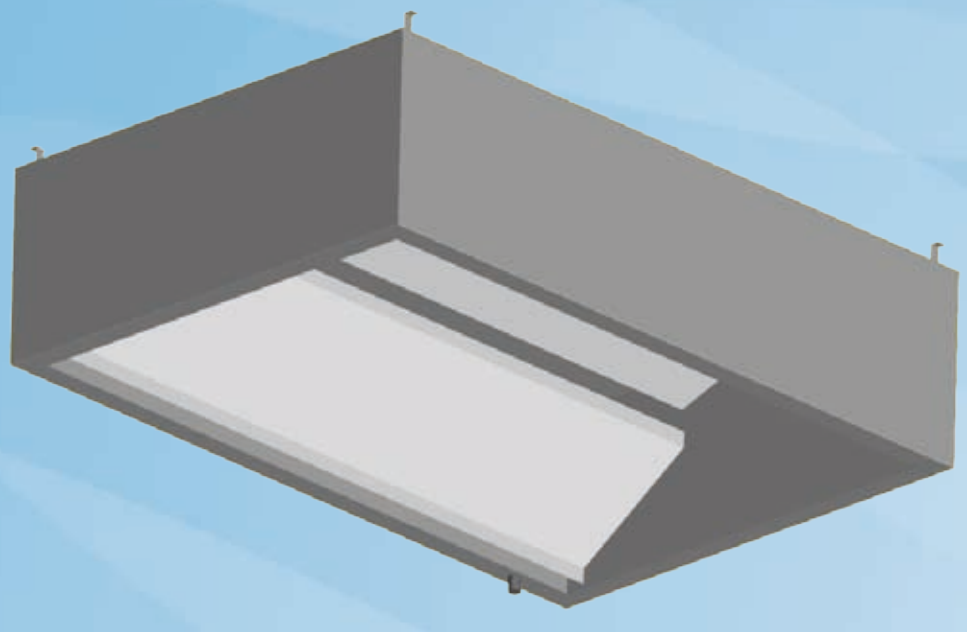
KVV

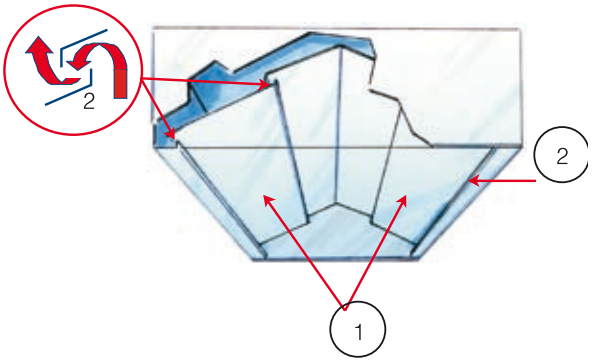
Steam Extraction Canopy

20/KVV/xxxx/0306/EN



The KVV steam extraction canopy has been especially adapted to capture, condense and remove steam produced by industrial dishwashers, cooking pots and other appliances with low grease emission level.
In general KVV canopy is well suited for applications, where grease filtration is not the main requirement.

- Condensation is achieved by the use of angled internal baffles and deflectors
- Efficient exhaust is maintained by using lateral side slots combined with the large internal volume
- Modular construction simplifies design and installation
- Adjustment and measurement of airflow using the T.A.B. ™ measuring tap in combination with an adjustment damper within the extract spigot(s)
- Manufactured from polished stainless steel AISI 304
- Surface mounted light fittings are available as an accessory.



Function

The canopy above the steam producing equipment contains large volumes of humid air, which are exhausted via the upper baffle chicane (1).
Two lateral side slots (2) prevent the condensed water from dripping down on to the work surfaces.

DIMENSIONS

KVV	mm
Length	1000...2500
Width	1000...1500
Height	555, 400

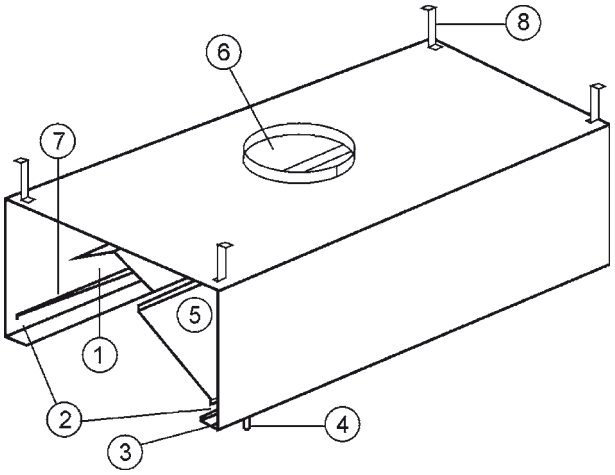
Accessories

- Cover Boards - where canopies are below ceiling level
- Infill Panels
- Surface mounted light fitting - IP65 (max. ambient temperature 35°C)
- Non-standard spigots: choice of size and position
- Totally stainless steel construction

QUICK DATA

	Recommended Exhaust air volumes	
L	l/s	m³/h
1000	305	1100
1500	445	1600
2000	610	2200
2500	805	2900

The recommended exhaust air volumes shown above provide the optimum velocity required through the slots.
LpA < 45 dB(A)



CODE	DESCRIPTION
1	Upper baffle chicane
2	Lateral slots
3	Outer casing / condense channel
4	Grease collection tray or drain tap
5	Interior baffles
6	Exhaust air connection and damper plate
7	Measurement tap TAB™
8	Hanging brackets

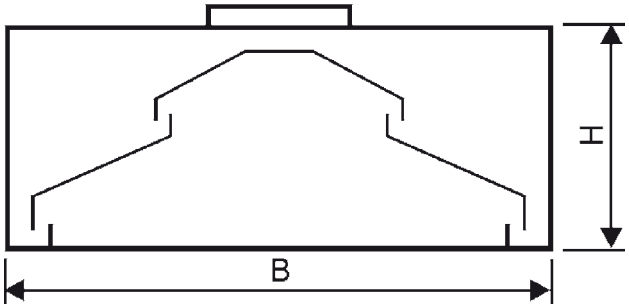
Construction

The outer casing (3) is manufactured from easy-to-clean stainless steel AISI 304.
The plenum top panel, connection spigots and control damper are manufactured from galvanised steel, (optionally from stainless steel AISI 304).
All lower joints of the canopy are fully welded and polished to ensure water tightness.
KVV canopy is equipped with a draining tap (4) for removal of collected condensates.
The interior baffles (5) are removable to allow access for cleaning the inside of the exhaust plenum.
Adjustment and measurement of the exhaust airflow is carried out using the adjustment damper (6) located within the exhaust duct spigot(s) and the measurement tap T.A.B.™ (7).
An optional surface mounted light fitting is installed on the bulkhead of the canopy.

DIMENSIONS (mm)

KVV – 1- Wall model	
L	1000.....2500
B	1000.....1500
H	555, 400
D	315
A	B/2

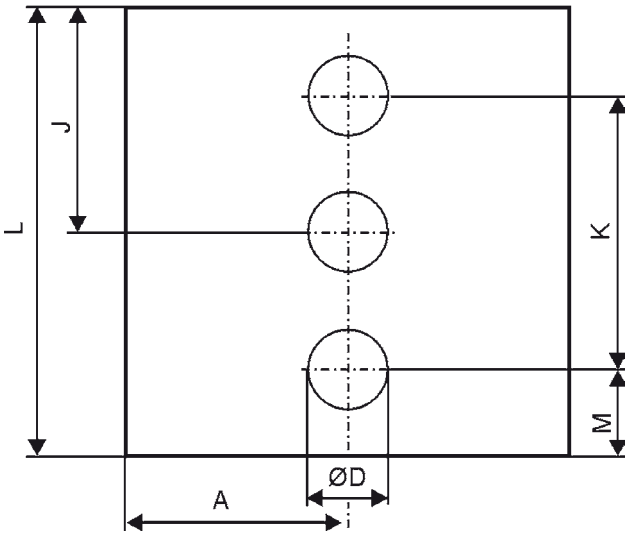
Note: The dimensions above are for modular sections only; larger canopies are assembled using a combination of separate modules, which makes transportation and site handling easier.



LOCATION OF CONNECTIONS (mm)

For typical sizes

		Exhaust	
		2x315	1x315
L	M	K	J
1000	-	-	L/2
1500	375	750	L/2
2000	500	1000	L/2
2500	500	1500	L/2



WEIGHTS (KG)

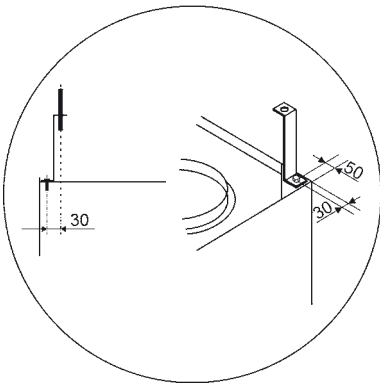
400 mm

L/B	1000	1100	1300	1500
1000	43	47	50	54
1500	54	57	60	64
2000	69	72	76	81
2500	80	83	87	93

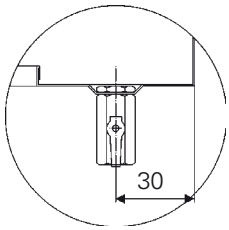
555 mm

L/B	1000	1100	1300	1500
1000	49	53	56	59
1500	61	63	66	69
2000	75	79	84	88
2500	86	91	97	101

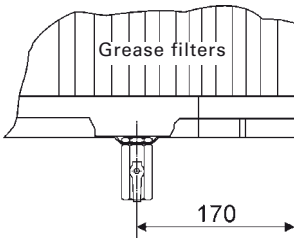
Mounting bracket 150 mm high



Position of Drain tap, when fitted



Side view



Front view

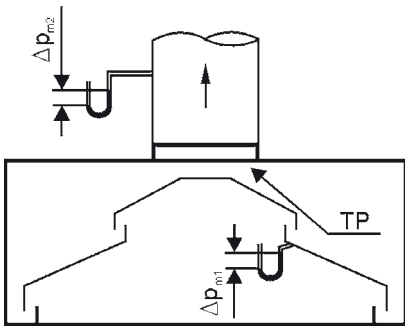
Pressure drop and sound data, exhaust

H = 555/400

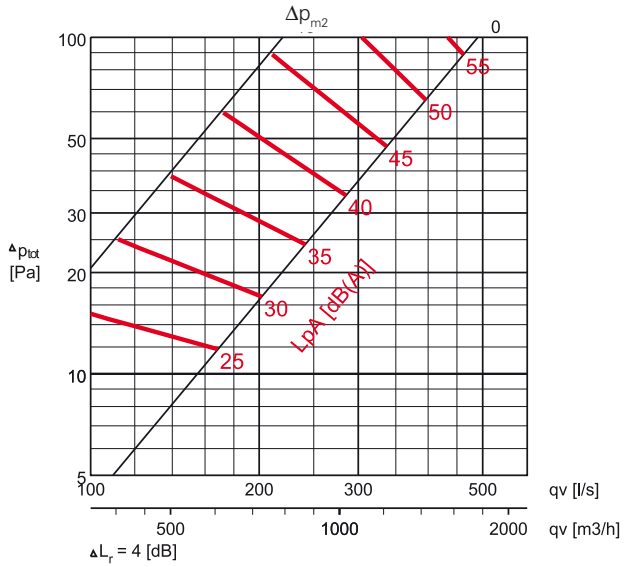
Δp_{m1} = Pressure loss of filters measured from measuring tap, minimum exhaust pressure loss when the damper plate is open

Δp_{m2} = Maximum exhaust pressure loss when the damper plate is nearly closed.

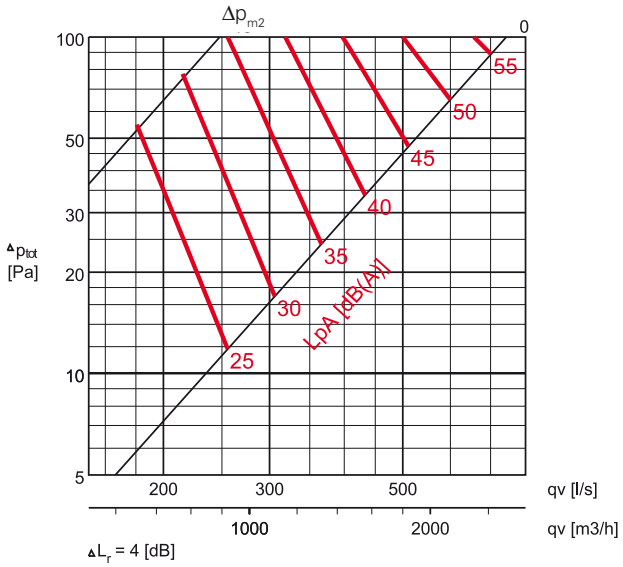
TP = Damper plate



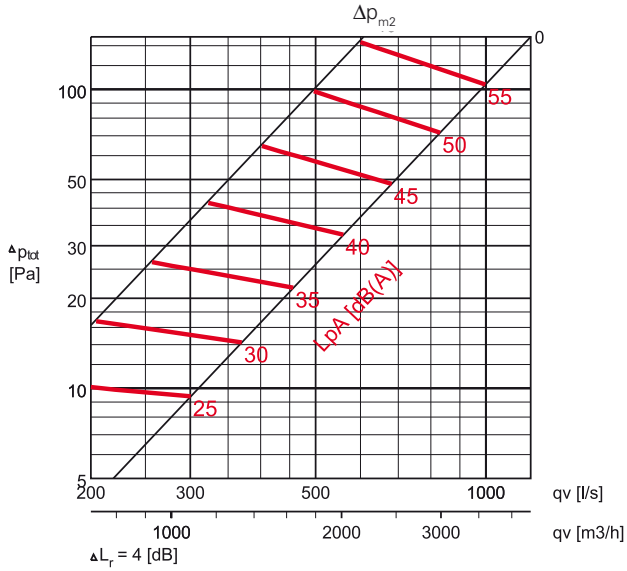
KVV-1000



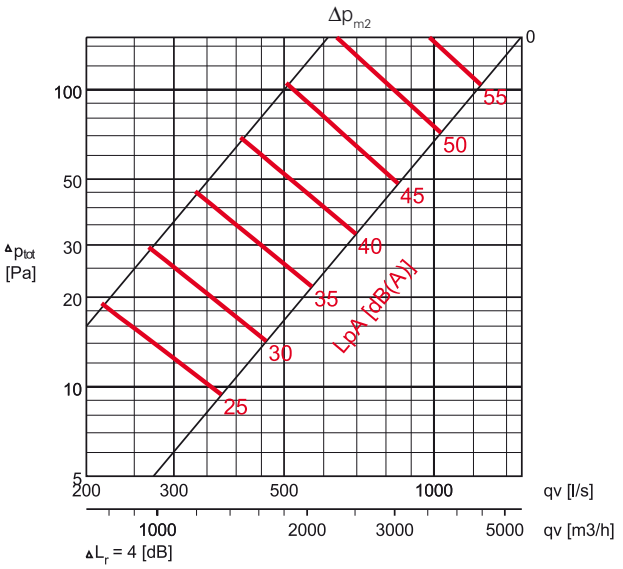
KVV-1500



KVV-2000



KVV-2500



Suggested specifications

General
Kitchen canopies shall be constructed from stainless steel AISI 304.
The kitchen canopies shall be supplied complete with outer casing/main body, pressure measurement taps, extract air spigot connections with adjustment dampers, adjustable baffle plates, condensate channel, drain tap or collection tray and assembly brackets.

Outer casing/Main body
Outer casing panels shall be constructed of stainless steel AISI 304 in brushed satin finish.
Each joint shall be either spot-welded, riveted or machine-stitched. The canopy shall be provided with a full perimeter condense channel and crush-folded sloping edges, which are properly deburred. The joints of lower edge shall be fully welded, avoiding harmful dripping of water.
The plenum top panels shall be constructed of galvanised sheet steel.

Pressure Measurement Taps
The pressure measurement taps shall be located on the inside of the canopy.

Condensate Channels
Condensate channels shall form part of the main construction of the canopy and run the entire length of the canopy and on both sides.

Baffle plates
Condensation is achieved by the use of angled internal baffles and deflectors
Efficient exhaust is maintained by using lateral side slots combined with the large internal volume.

Spigot Connections
The spigot connections for exhaust air shall be constructed from galvanised steel and shall be supplied with a gasket and airflow balancing damper manufactured from galvanised steel.
The exhaust damper shall be adjustable and access to it is via high tensile stranded wire cables.

Fluorescent light fitting (optional)
Each canopy can be provided with surface light fixture to provide an average illuminance of approximately 500 lux at the cooking appliances work surface. The light fitting shall be suitable for single-phase 230v power supply and shall be constructed to protection standard IP65.
A core electric cable (3x1 mm²) connecting the light fitting to the conduit box containing multiple connectors shall be provided.

Product code

KVV-L-W-H

L = Length
1000,+10,..,3000

W = Width
1000,+10,..,1700

H = Height
400, 555

Specifics and accessories

EC = Number of exhaust connections
- 1 — 1 pcs
- 2 — 2 pcs

LF = Surface mounted light fitting
- S — Surface mounted light
- I — Integrated light (In right plenum)
- H — High temperature light 1x36 W
- N — No light

CD = Canopy drain
- D — Drain tap
- C — Collection tray

GE = General exhaust
- N — No
- Y — Yes

Code example

KVV-1000-1000-400, EC=1,LF=S,CD=D,GE=N

Sub products

- KB — Cover board
- KI — Infill panel
- KT — Canopy top list