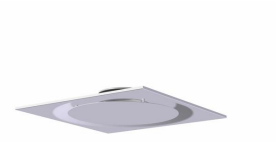
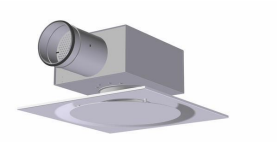




VPD

- Square and circular design
- Diffuser for supply and exhaust application
- Applicability with and without LUNA plenum box
- Adapted to various ceilings
- Dismantable front inner core

APPLICATION

VPD is a combined supply and exhaust diffuser. VPD V3 is designed for easy installation in modular ceiling systems. VPD V1 is designed for fixed ceilings. VPD is designed to take advantage of the Coanda effect to the ceiling surface.

VPD with Luna plenum box:
The Luna plenum box is recommended for improved sound attenuation, and works as an adjustment and measurement unit. Luna is a rectan-gular box fitted with a removable damper which provides access to the connecting duct. The damper can be secured in any position required.

DESIGN

VPD V3 has a dismantable front. Standard ceiling variant is type TA which is adapted to a T-profile ceiling, but can be delivered in alterna-tive ceiling variants, type DC, DG, DS, EK and X-flange, see figure 3 and order code. VPD V1 has a dismantable front and can be used in fixed ceilings.

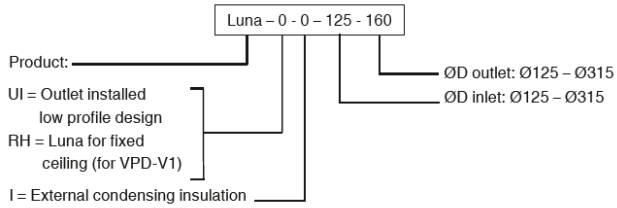
VPD V3 with Luna plenum box:
The Luna plenum box features a damper and measuring outlet for commissioning. It is insulated with a sound absorber in polyester and is available with one or two dimensional changes between inlet and outlet. Furthermore, the box can be delivered with external con-densation insulation. ***A low-profile design [UI] is also available, and for this type a reduction in capacity of approx. 20% will apply.*** The distance between valve and box can be increased by up to 35 cm without extending the wire and measuring tube.

INSTALLATION

VPD V3 can be installed in various modular ceiling systems. If a Luna plenum box is used, the unit is attached to the rear of the support bracket by means of threaded rod or strap, see figure 9 in the product data sheet.

TECHNICAL INFORMATION

ORDER CODE, Luna for VPD



Example:

Luna-0-0-125-160

Explanation:

Luna plenum box with inlet Ø125 and outlet Ø160

QUICK SELECTION, VPD at DUCT END, SUPPLY

VPD	[m³/h]		
ØD	25dB(A)	30dB(A)	35dB(A)
125	181	213	252
160	227	267	314
200	303	351	406
250	332	396	471
315	450	504	594

Table 1, shows air flow volume at the stated sound power level (supply).

QUICK SELECTION, VPD at DUCT END, EXHAUST

VPD	[m³/h]		
ØD	25dB(A)	30dB(A)	35dB(A)
125	234	288	356
160	396	464	540
200	464	540	626
250	583	691	792
315	619	742	889

Table 2

QUICK SELECTION VPD WITH LUNA (INTAKE)

	Open (m³/h)		
Luna dim.	25dB(A)	30dB(A)	35dB(A)
100-125	112	133	162
100-160	115	137	166
125-125	119	140	169
125-160	162	194	234
125-200	194	227	266
160-160	176	212	256
160-200	223	277	328
160-250	288	331	392
200-200	256	299	353
200-250	317	367	432
200-315	367	443	518
250-250	317	371	443
250-315	425	504	594
315-315	475	554	659

Table 4, Quick Selection table VPD with Luna supply, air flow volume with open damper (m3/h).

QUICK SELECTION VPD WITH LUNA (EXHAUST)

	Open (m³/h)		
Luna dim.	25dB(A)	30dB(A)	35dB(A)
100-125	133	162	191
100-160	122	155	194
125-160	162	202	252
125-200	184	223	277
160-200	277	324	389
160-250	281	331	403
200-250	353	425	504
200-315	389	450	522
250-315	400	475	569
315-315	497	587	691

Table 5, Quick Selection table VPD with Luna exhaust, air flow volume with open damper (m3/h).