

# Ceiling Diffuser Supply/ Extract (125mm)

## For use with Titon's HRV Q Plus and CME Q Plus Ranges

Titon's residential valve is designed to be aesthetically pleasing and fit into any high specification property. It can be mounted onto a wall or ceiling and offers efficient airflow whilst maintaining a professional aesthetic design.

Quick and easy mounting by spring mechanism or mounting ring, to be fixed on both flexible and rigid ductwork. Provided with double lip seal (air tightness class D according EN 15727). Easy adjustment of volume damper. Standard finish RAL 9003, textured paint.

The ingenious architectural valve is suitable for homes as well as for offices. You can choose between a ceiling or a wall installation.

This product is not only pleasing to the eye, it combines also exceptional air technical performances at an extremely low noise level.

You can use this residential valve easily as supply or Extract, in new buildings and for renovation.

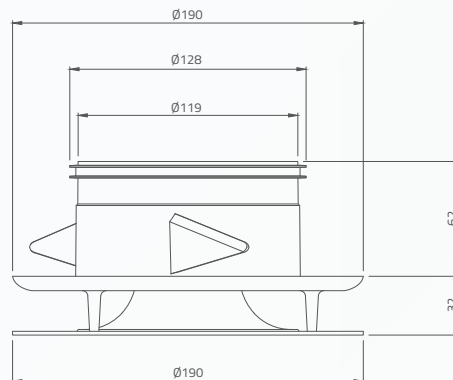
## Features & Benefits

- Low sound levels
- Easy to install and adjust
- Minimal pressure loss
- Can be wall or ceiling mounted
- Sleek stylish design that gives your home a truly modern look

MVHR



## Drawing & Dimensions



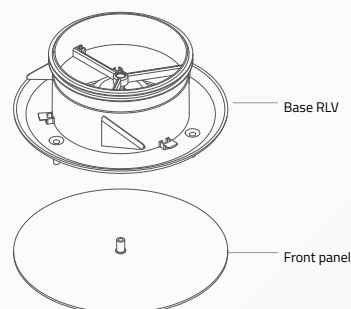
The residential diffuser consists of two parts:

- The base valve (available with mounting bracket or springs)
- The deflector plate (available in different shapes and surface finishing)

A simple screw joint couples both parts faultlessly. Each valve has a double lip seal to allow ductwork to achieve class D airtightness. Next to that a static pressure measurement can easily be done

Product Code	Size	Airflow	8l/s	15l/s	30l/s
9030001	125mm	Supply (open at 11mm)	4.5 pa	15 pa	60 pa
		Extract (open at 11mm)	5.6 pa	19 pa	76 pa

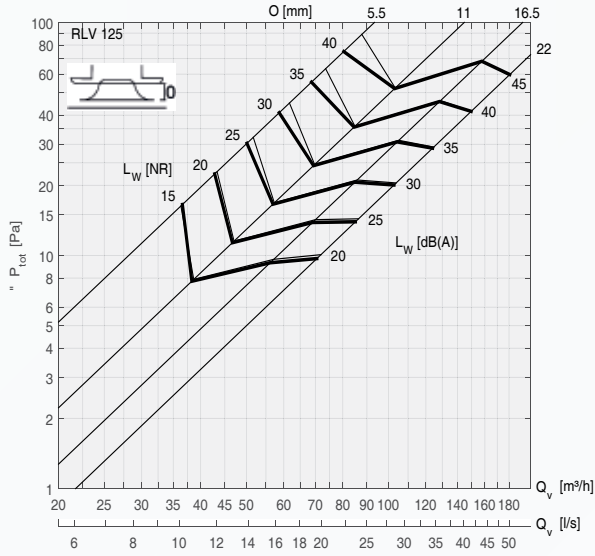
Product Code	Size	Type	Lw		
			25 dB(A)	30 dB(A)	35 dB(A)
9030001	125mm	Supply	24l/s	29l/s	35l/s
		Extract	24l/s	28l/s	34l/s



Dimensions in mm

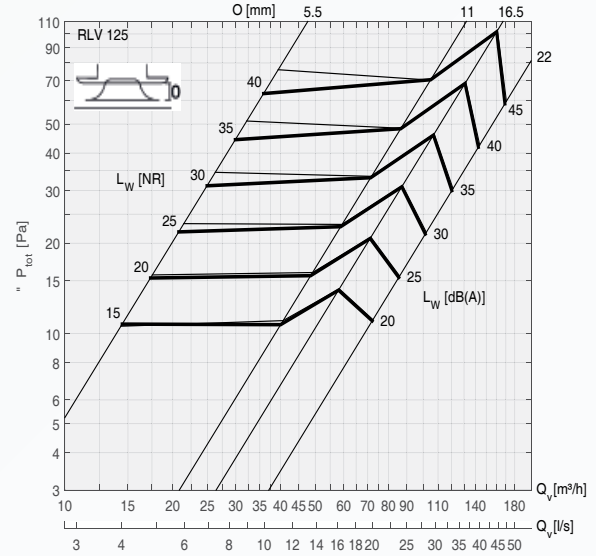
**SUPPLY**

SOUND POWER, PRESSURE DROP

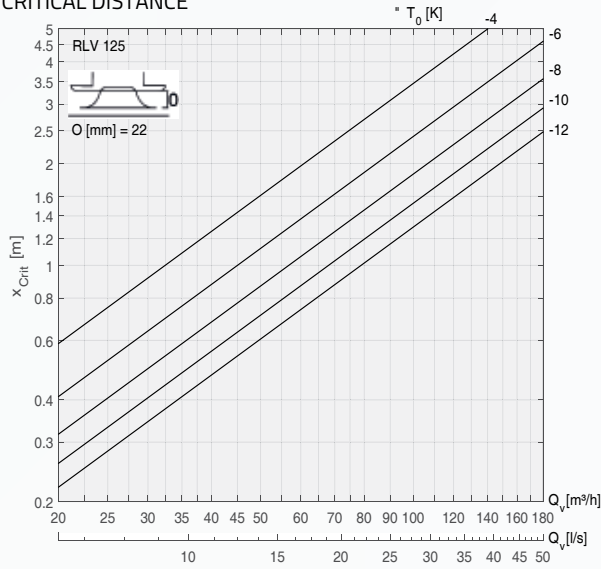


**EXTRACT**

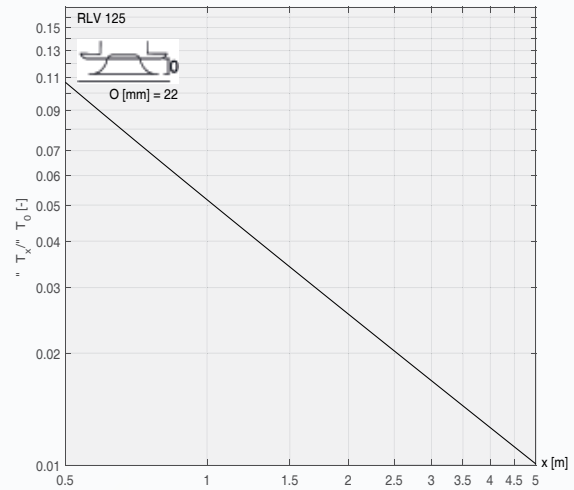
SOUND POWER, PRESSURE DROP



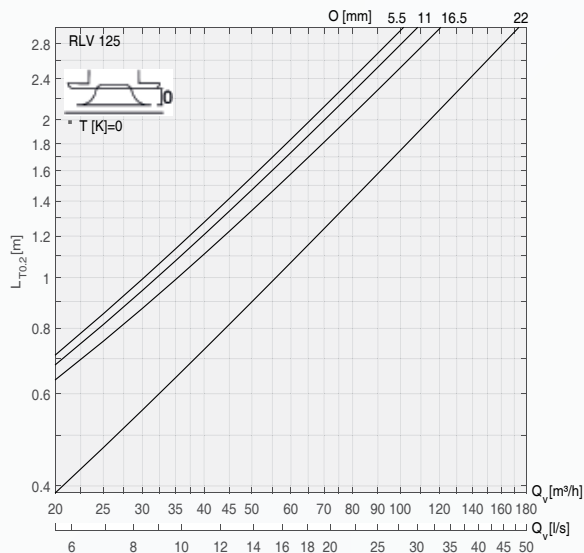
CRITICAL DISTANCE



TEMPERATURE



THROW



SELECTION EXAMPLE

Known data		
supply air flow rate, $Q_v$	[m <sup>3</sup> /h]	75
supply air temperature, $T_0$	[°C]	20
ambient temperature, $T_a$	[°C]	24
acoustic room attenuation, $\Delta L_r$	[dB(A)]	8
max. air velocity in occupied zone	[m/s]	0,2
aperture, $O$	[mm]	22
Selection from graphs		
sound power, $L_w$	[dB(A)]	21
	[NR]	17
sound pressure, $L_p (= L_w - \Delta L_r)$	[dB(A)]	13
total pressure loss, $\Delta P_{tot}$	[Pa]	11
throw, $L_{T0,2}$	[m]	1,3
critical distance @ $\Delta T_0 = T_a - T_0$ , $x_{crit}$	[m]	2,5
temperature coefficient @ $L_{T0,2}$ , $\Delta T_x / \Delta T_0$	[-]	0,038
temperature $T_x = T_a - (\Delta T_x / \Delta T_0)(T_a - T_0)$	[°C]	23,8