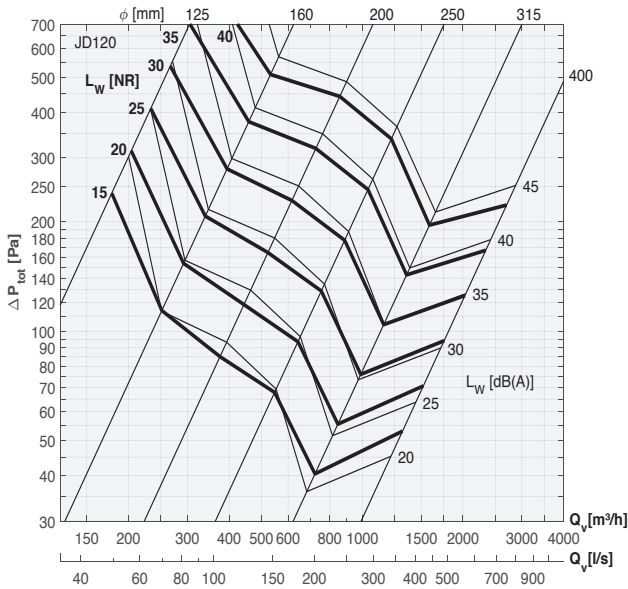


SELECTION

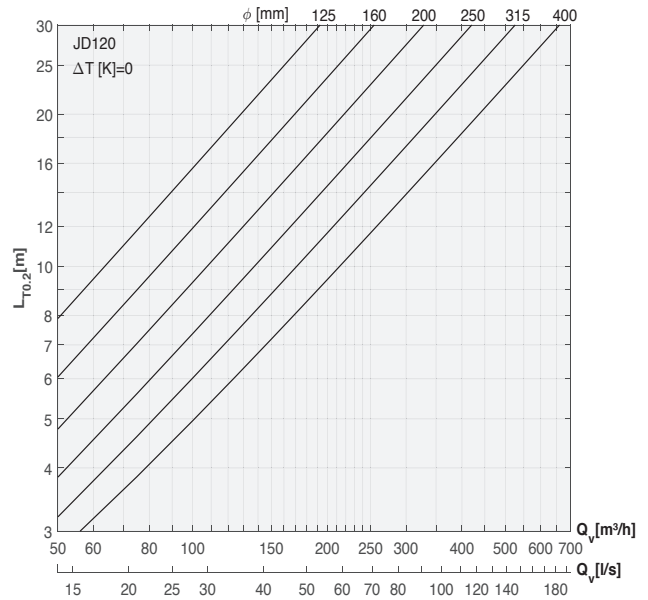
SUPPLY

SOUND POWER, PRESSURE DROP
(FOR PANEL EXECUTION, SEE CORRECTION FACTORS)



THROW

(FOR PANEL EXECUTION, SEE CORRECTION FACTORS)



EFFECTIVE AIR DISCHARGE SURFACE

	ϕ [mm]					
	125	160	200	250	315	400
A_k [m²]	0,0030	0,0053	0,0088	0,0145	0,0228	0,0363

CORRECTIONS FOR PANEL EXECUTION

(BASED ON THE FLOW RATE FOR 1 UNIT JD1-0)

THROW

$L_{T0.2}$ [m]	5	10	15	20
JD1-0P2	x1.11	x1.29	x1.32	x1.34
JD1-0P3	x1.15	x1.45	x1.54	x1.55

SOUND POWER

	L_w
JD1-0P2	+3
JD1-0P3	+5

PRESSURE LOSS

Use graph for JD1-0 with the flow rate of 1 unit.

To calculate the airflow behavior in rooms as well as performance data such as sound level and pressure loss, please consult our [FACT selection software](#).

SELECTION
SELECTION EXAMPLE

Known data		
supply air flow rate, Q_v	[m ³ /h]	300
supply air temperature, T_0	[°C]	26
room temperature, T_a	[°C]	26
max. allowable sound pressure, L_p	[dB(A)]	35
room sound attenuation, ΔL_r	[dB(A)]	8
max. allowable velocity in occupied zone @ 20 m	[m/s]	0,2
Selection from graphs		
proposal of diffuser size	[mm]	315
throw, $L_{T0,2}$	[m]	17,3
sound power, L_w	[dB(A)]	<20
sound pressure, $L_p (= L_w - \Delta L_r)$	[dB(A)]	<20
total pressure loss, ΔP_{tot}	[Pa]	7

LEGEND

Symbol	Unit	
A_k	[m ²]	effective air discharge surface area (measured)
ΔP_{tot}	[Pa]	total pressure loss
Q_v	[m ³ /h] / [l/s]	airflow
L_w	[NR] / [dB(A)]	sound power
$L_{T0,2}$	[m]	distance at which the jet centreline velocity decreases to 0.2 m/s

To calculate the airflow behavior in rooms as well as performance data such as sound level and pressure loss, please consult our [FACT selection software](#).