HMC SINGLE DUCT CABIN UNIT

For crew cabins, manual model

APPLICATIONS

Halton HMC is a manually operated cabin unit for single duct applications. The unit can be installed directly through one ceiling blade (300 mm). Airflow is controlled via an adjusting knob installed through the diffuser. The control mechanism has mechanical limits for minimum and maximum airflows. Airflow limits can be easily set during commissioning. HMC is recommended to be used in conjunction with Halton's TCL diffuser that is specifically designed for HMC cabin unit.

MATERIALS

PART	MATERIAL	NOTE
Casing	Hot galvanized steel	Available as an option: stainless steel EN 1.4404 (AISI316L)
Spigots	Hot galvanized steel and EPDM rubber	Available as an option: stainless steel EN 1.4404 (AISI316L)
Insulation	Mineral wool, s=25 mm, MED approved	-

FEATURES

- Pressure range from 0 Pa...200 Pa
- Airflow range 0 m3/h...180 m3/h
- Airflow adjustment with diffuser knob, painted with the diffuser color
- Mechanical max/min airflow limits for easy commissioning
- Easily tailored for different types of installations
- MED approved for B-0/B-15 installations

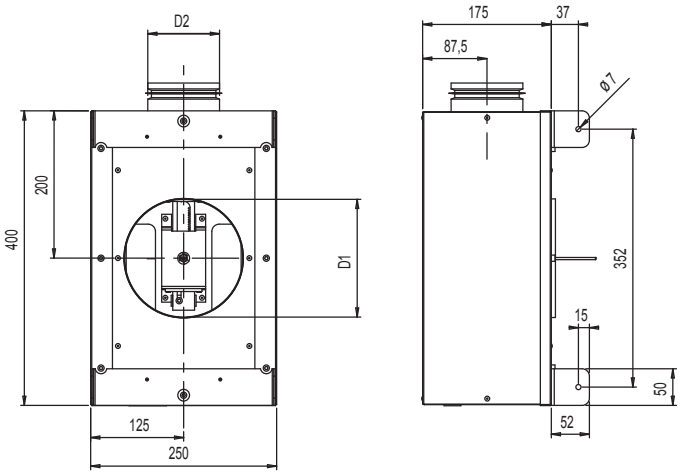
HMC DIMENSIONS AND WEIGHT

	B	L	H	ØD1 male/ female	ØD2 male
HMC	250	400	175	159/161	98

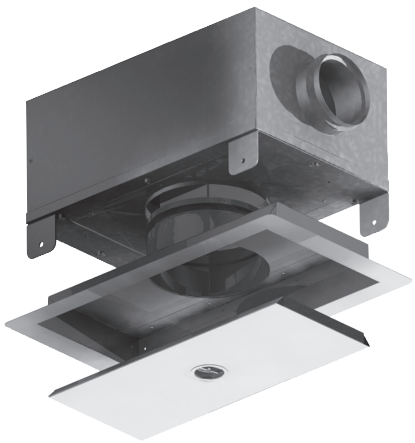
Note: male connection: outer dimension, female connection: inner dimensions

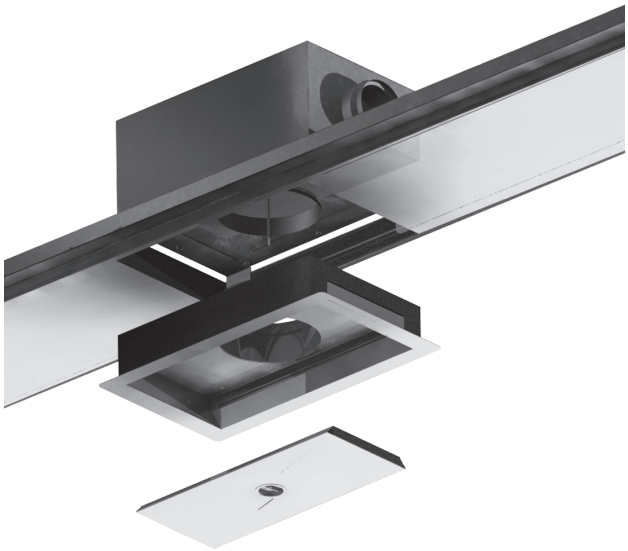
HMC cabin unit without a diffuser weights 6,2 kg.

HMC GENERAL DRAWINGS



MAIN PARTS





FUNCTION

Airflow is controlled via an adjusting knob installed through the diffuser. The control mechanism has mechanical limits for minimum and maximum airflows.

INSTALLATION

HMC can be installed directly through one ceiling blade.

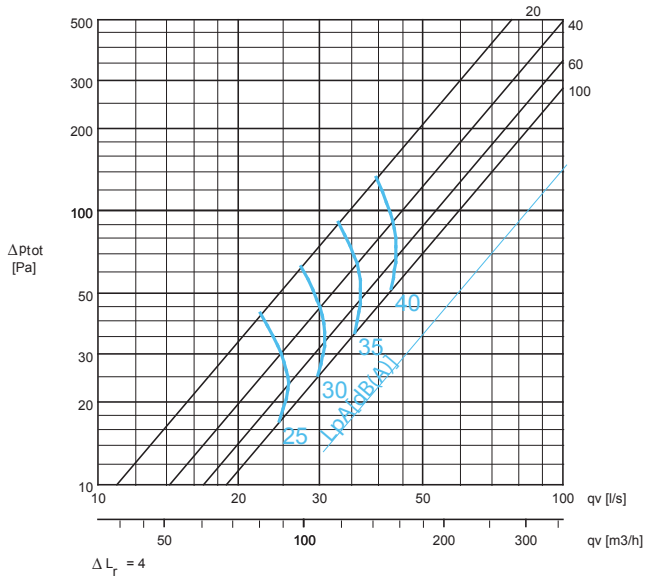
ADJUSTMENT

The supply flow rate is determined by using a hand-held measurement device.
Adjust the minimum airflow rate by rotating the D-shape bar until the desired setting is achieved. Move the minimum airflow mechanical limiter against the stand and tighten socket cap screw. Adjust the maximum airflow rate by rotating the D-shape bar until desired setting is achieved. Move the maximum airflow mechanical limiter against the stand and tighten socket cap screw.

PERFORMANCE DATA

PRESSURE DROP AND SOUND LEVELS (CABIN SOUND ABSORPTION 4 dB(A)

HMC



SOUND ATTENUATION (dB)

	f(Hz)	63	125	250	500	1000	2000	4000	8000
HMC	ΔL(dB)	3,7	4,1	12,4	21,5	23,8	33,4	34,9	35,2

ΔL: Sound attenuation not including end reflection

SOUND ATTENUATION (dB) WITH TCL-160 DIFFUSER

	f(Hz)	63	125	250	500	1000	2000	4000	8000
HMC+TCL	ΔL(dB)	3,7	6,4	16,9	21,7	31,0	41,2	35,7	36,8

ΔL: Sound attenuation not including end reflection