

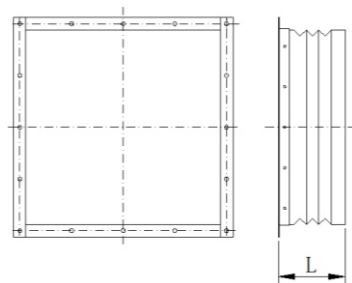
## 附件 Accessories

### 出风口软连接装置

出风口软连接是用聚酯/PVC织物材料制成，两侧配镀锌钢板制作的法兰。尺寸“L”为155mm的软连接适合于各种大小的风机。根据需要，可定制特殊的软连接。

#### Flexible outlet connection

The flexible connection for the outlet is manufactured with a polyester/PVC fabric and two matching flanges, made in galvanised steel sheet. The “L” dimension, valid for all fan sizes, is equal to 155mm. Special flexible connections can be manufactured on request.



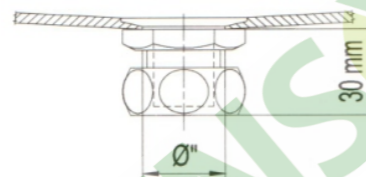
### 排水孔

通常设于风机的最低部位，以排除冷凝水。

#### Drain plug

Usually fitted at the lowest part of the fan to facilitate drain of condensation.

	φ''
BND/BAD 315 - 1000	1/2''
BND/BAD 1120; BND/BAD 1250	1''



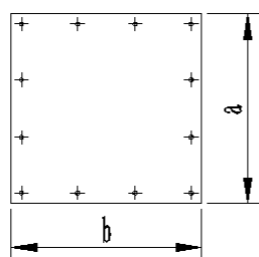
### 检修门

在风机的壳体上课开设检修门，它用钢板作成，并用快速松开的螺钉固定，用合成的密封垫防止漏风。检修门的位置必须在订单中说明。

#### Inspection door

Can be fitted to the fan casing and consists of a steel plate fixed by quick release screws. A synthetic gasket prevents leakage. Positon of the inspection door must be clearly stated in the order.

	a	b
BND/BAD 315 - 560	220	240
BND/BAD 630 - 1000	270	290
BND/BAD 1120; BND/BAD 1250	560	560



### 流量测量装置

BND/BAD系列风机适用于这种装置来测量和控制其风量，公差范围在5%-10%（正常运行条件）之间。

这种测量装置的精度已经欧盟国家技术实验室对我们全系列风机进行多次广泛权威的测试和认证。这装置采用两个或更多的静压测量点直接固定在两个进风口上，这些测量点通过一个环形软管连接到测量压力装置。

当风机安装在AHU风柜中时，测量压力差再AHU进风处（风机进风口的地方）和气体测量装置（参考下一页）。这个压力差可以有下面的公式转换成体积风量：

### Airflow measuring device and fan installation recommendations

The BND/BAD fans can be fitted with a device for measuring and controlling the air volume, with a tolerance of 5% to 10%, (normal operating conditions).The measuring device accuracy is guaranteed by an extensive series of tests performed in our state of art test laboratory, for the whole fan range dimensions. The device consist of two or more static pressure measuring points, mounted directly into both inlet cones. The measuring points are manifolded together via a flexible pope ring. Therefore only a single pipe connection to the pressure measuring device is required.

When the fan is installed in an AHU, the pressure differential to be measured is between the suction chamber of the AHU (where the fan is installed) and the flow measuring device (see the next page).

This pressure difference can be converted into the volume flow by the following formula:

$$V = K \sqrt{\frac{2}{\rho} * \Delta P}$$

气流 Airflow	V (m³/h)
标定系数（与风机尺寸决定） Calibration facotr depending on fan size	K
空气密度 Air density	ρ (kg/m³)
压力差 differential pressure	ΔP (Pa)

配有测量环装置（图1）可以配合使用电子流量测量装置（图2）。压力测量装置必须和风机一起订购，因为它必须在工厂内安装。

The device with the measuring ring (Fig.1) can be used with the electronic airflow measuring device (Fig.2).

The pressure measuring device must be ordered with the fan, as it must be installed in factory.

K factor (BAD)	250	280	315	355	400	450	500	560	630	710	800	900	1000	1120	1250	1400
K	-	-	211.93	267.7	331.84	418.28	504.73	633	844.93	1129.36	-	-	-	-	-	-
HL	-	-	200.78	256.55	312.32	395.97	471.26	591.17	803.1	1087.53	1360.81	1720.53	2091.41	2624.02	3268.18	-
GM	-	-	197.99	250.97	301.16	382.03	443.38	557.71	741.75	989.93	1296.67	1642.45	2091.41	2624.02	3268.18	-
HM	-	-	-	-	284.43	359.72	443.38	557.71	741.75	989.93	1296.67	1642.45	2091.41	2624.02	3268.18	-

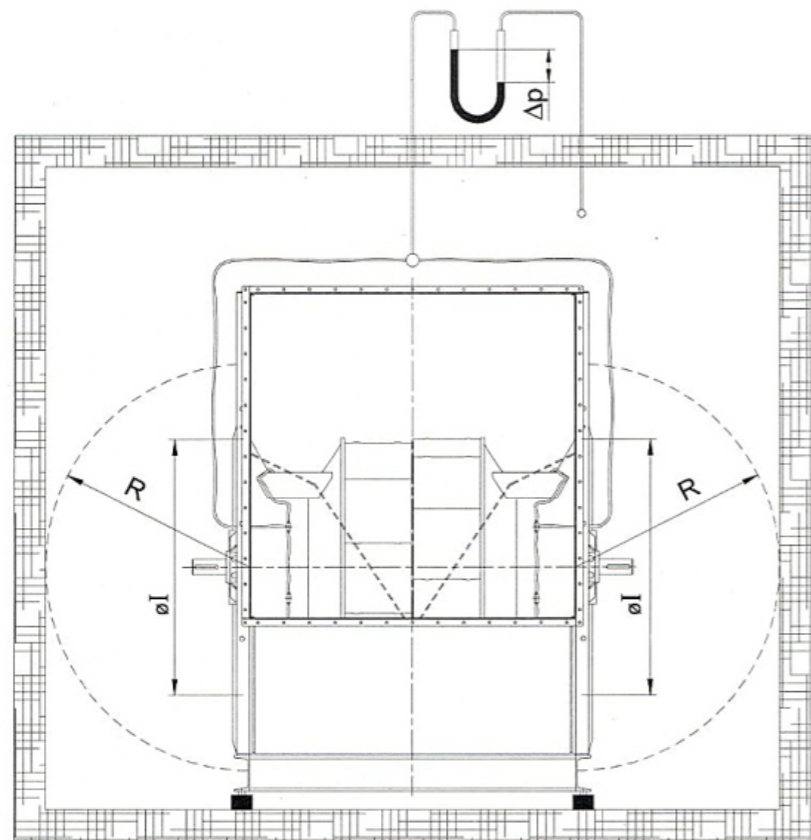


图1



图2

> 风机安装建议

风机进风口与AHU墙壁之间距离半径R (图3) 对风机正常运转至关重要。这里引用了相关风机文献上的使用说明。

如果知道风机进风口气流速度和风机进风口与AHU墙壁的距离, ΔPU可以从图 获得。正确的风机选型, ΔPU必须增加到环路的全部损失。

> Fan installation recommendations

The distance between the fan inlet and the AHU walls "R" (Fig.) is vital for a correct fan operation. Here attached useful indications quoted in the fans literature.

Known the air velocity at the fan inlet, and the distance of the fan inlet from the AHU walls, the ΔPU can be obtained from graph . For a correct fan selection, ΔPU have to be added to the circuit total losses.

不影响 No influence	$R=0.92 \times \phi l$
区域 1 Zona 1	$R=0.75 \times \phi l$
区域 2 Zona 2	$R=0.50 \times \phi l$

风机进风口与 AHU 墙壁的距离 Distance of the fan inlet from the AHU walls	R (mm)
风机进风口的直径与实际的叶轮直径相一致 Diameter of the inlet of the fan that coincide with nominal wheel diameter	$\phi l$ (mm)
来自对 AHU 墙壁的影响的压力损失 Pressure loss due the AHU walls influence	$\Delta PU$ (Pa)
进风口气流速度 Air velocity at the fan inlet	V (m/s)

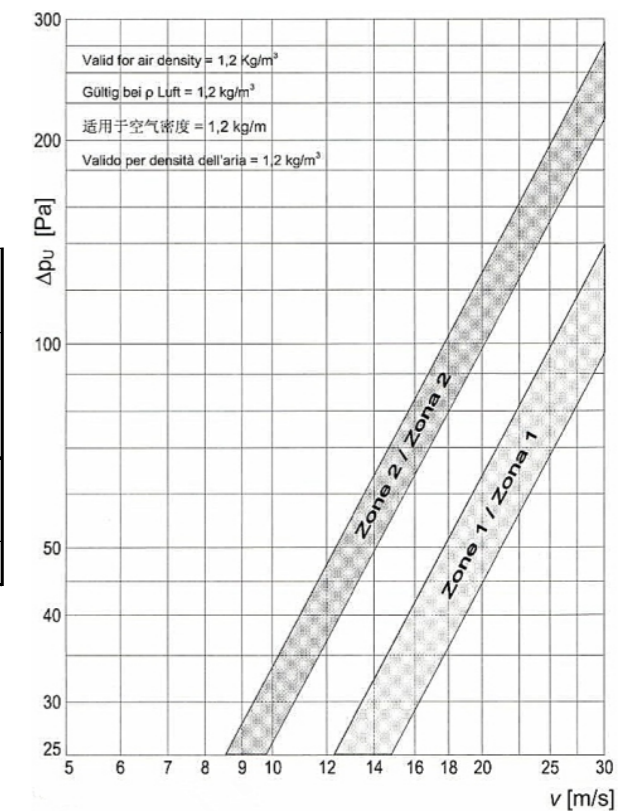


图3