FabricAir

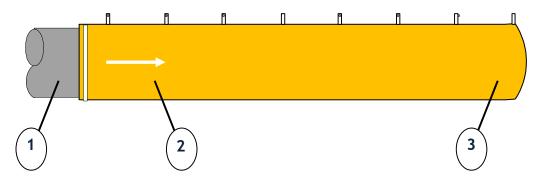
Main Calculations

Main Calculations

* Calculation Examples

EXAMPLES

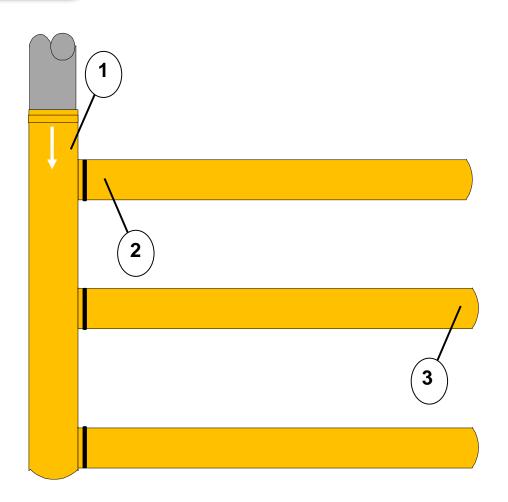
Basic rules for round Fabric Ducts.
Inlet from one end.



Recommended values

- 1a. Max. inlet velocity 10 m/s (recommended 6 8 m/s)
- 1b. Pstat. ≥2,5xPdyn.
- 2. Pstat. min. 60 Pa
- 3. Recommended max. Pstat = 150 Pa

EXAMPLES



Recommended values

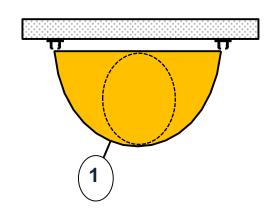
- 1a. Max. 8 m/s.
- 1b. Pst. ≥2,5xPdyn.
- 1c. Pstat min. 60 Pa
- 2. Max.10 m/s.
- 3. Pstat max. 150 Pa

Basic rules for round Fabric Ducts with distribution Ducts in Fabric. Inlet from one end

EXAMPLES



<u>A - A</u>

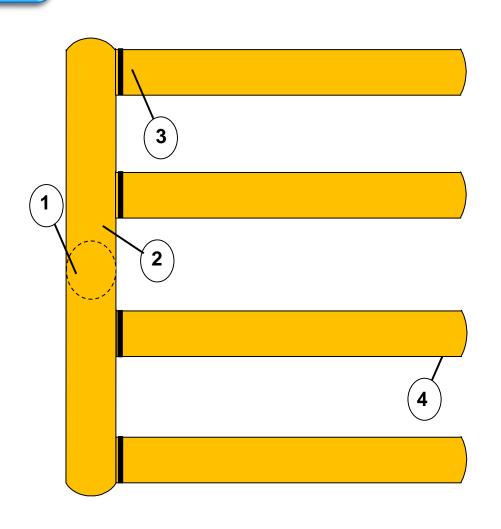


Recommended Values

- 1a. Max. 6 m/s.
- 1b. Pstat. ≥2,5xPdyn.
- 2a. Pstat min. 30 Pa
- 2b. Max. 7 m/s.
- 3. Pstat max. 150 Pa

D-shaped Fabric Ducts. Inlet from one end

EXAMPLES



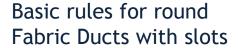
Recommended Values

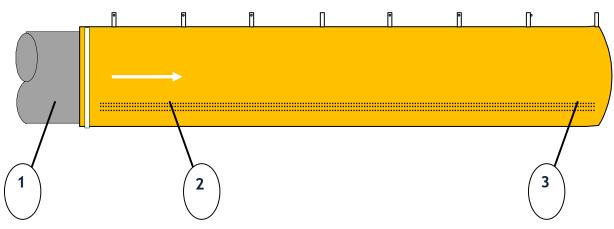
- 1a. Max. 4 m/s.
- 1b. Pstat. \geq 2,5xPdyn.
- 2a. Pstat min. 30 Pa
- 2b. Max. 7 m/s.- on each side.
- 3a. Max. 10 m/s.
- 4. Pstat max.150 Pa

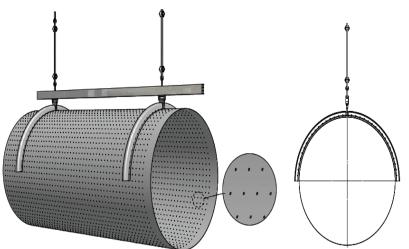
Basic rules for D-shaped Fabric Ducts with distribution Ducts in Fabric.

Inlet from middle

EXAMPLES





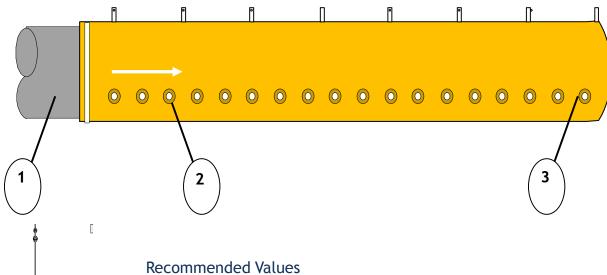


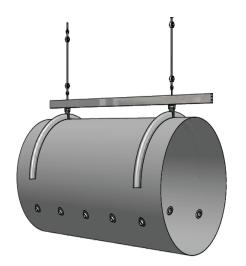
Recommended Values

- 1a. Max. inlet velocity 8,0 m/s (recommended 6 8 m/s)
- 1b. Pstat. ≥2,5xPdyn.
- 2. Pstat. min. 60 Pa
- 3. Recommended max. Pstat = 150 Pa

EXAMPLES

Basic rules for round Fabric Ducts w/nozzles





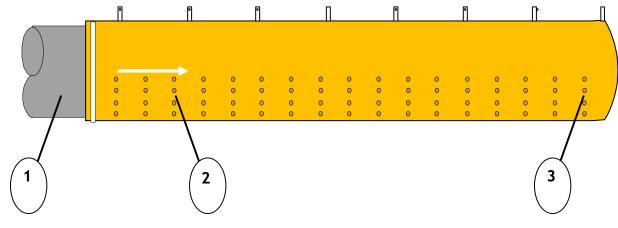


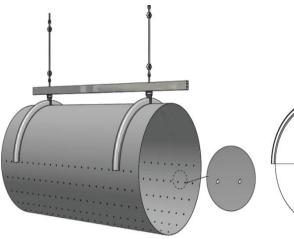
Recommended Values

- Max. inlet velocity 8,0 m/s (recommended 6 8 m/s) 1a.
- 1b. Pstat. ≥2,5xPdyn.
- 2. Pstat. min. 60 Pa
- Recommended max. Pstat = 150 Pa

EXAMPLES







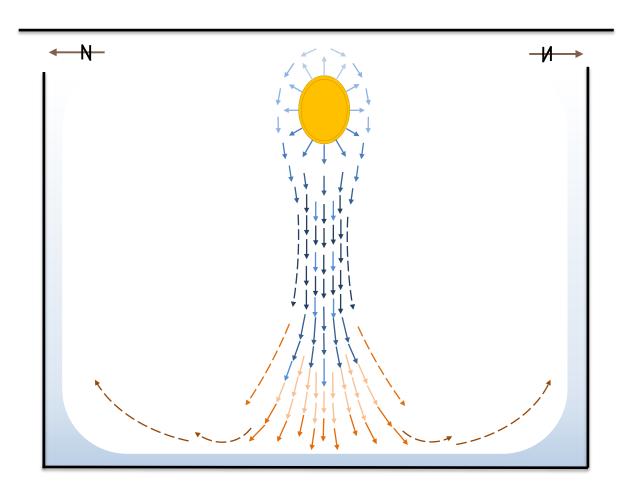
Recommended Values

MicroPla

- Max. inlet velocity 6,0 m/s (recommended 4 6 m/s) 1a.
- 1b. Pstat. ≥2,5xPdyn.
- 2. Pstat. min. 60 Pa
- Recommended max. Pstat = 150 Pa

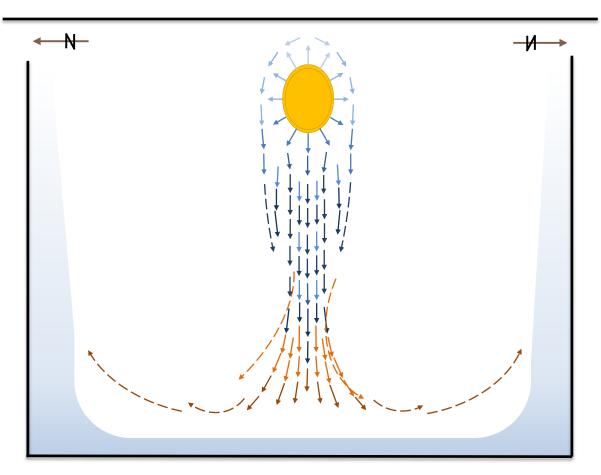
EXAMPLES

Air Distribution Pattern at $\Delta t \ 0 - 5^{\circ}C$ (Cooling)



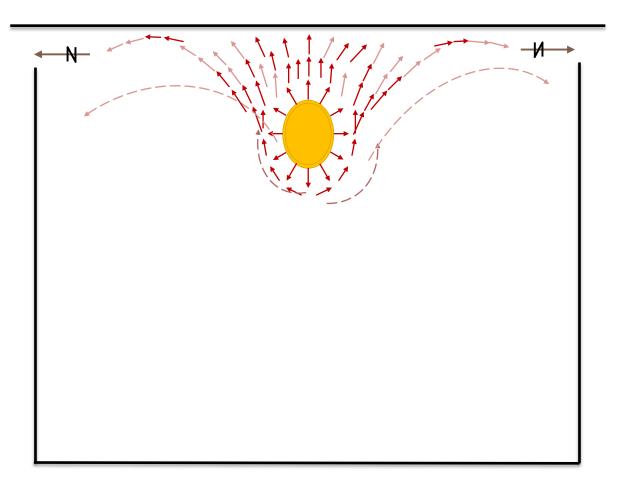
EXAMPLES

Air Discharge Pattern at $\Delta t > 6$ °C (Cooling)



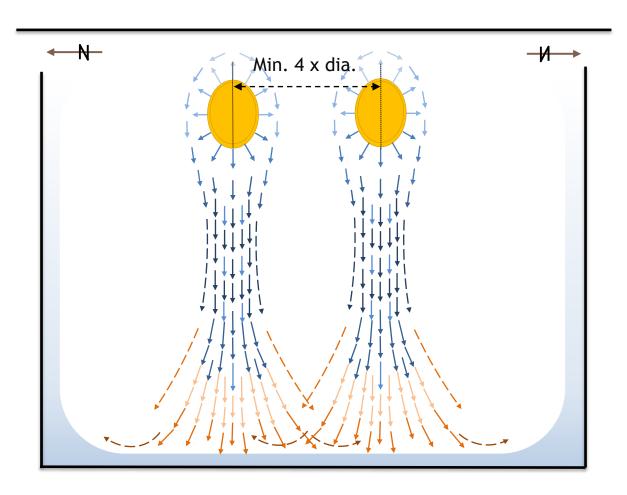
EXAMPLES

Air Discharge Pattern for Heated Air



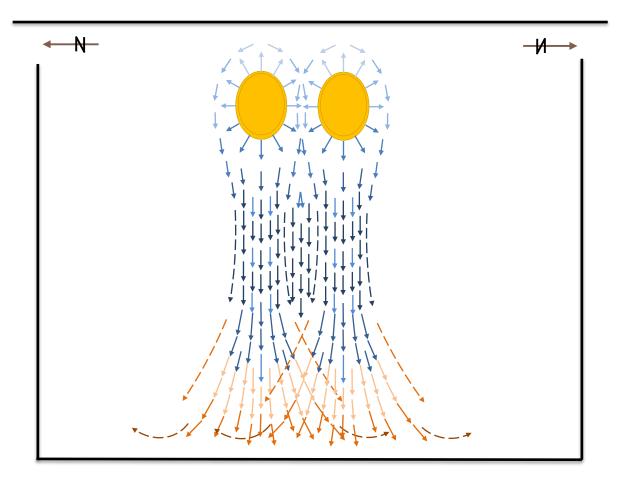
EXAMPLES

Distance between Ducts



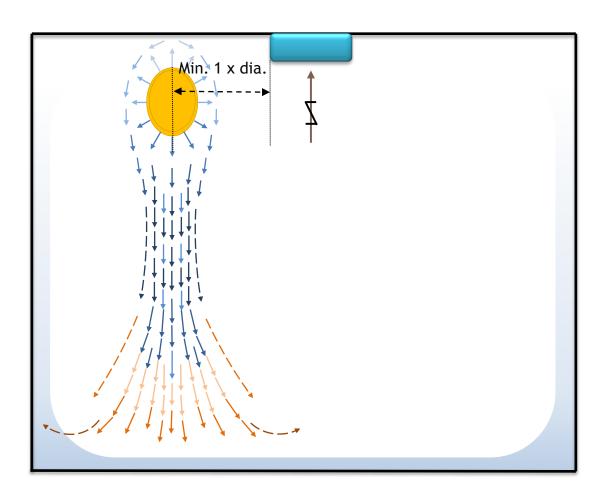
EXAMPLES

Wrong Distance between Ducts



EXAMPLES

Distance from Fabric
Ducts to Exhaust Outlet



EXAMPLES

Fabric Ducts and strong Heat Sources

