

## WALL DIFFUSERS

### NEW OPTIONS FOR AIR DISTRIBUTION



Optimal air distribution through the wall with the CFS

#### WITH OUR NEW VERSATILE WALL SOLUTIONS OF TYPE CHS, CHM, CFE AND CFS

Increasingly, the installation of suspended ceilings is being dispensed with in old and new buildings. The air exchange then often takes place via the corridors through the wall.

The new **CHM and CHS wall diffusers** offer the perfect solution here, not only visually but also acoustically, both for supply air and extract air, or as a supply/extract air combination. The integrated sound insulation of the wall elements also ensures low acoustic values for the user.

The multifunctional CHM also has an optional volume flow limiter and scores with variable designs in the choice of diffuser types. With our PURELINE slot diffuser, for example, a particularly clean air discharge can be achieved without dirt deposits on the wall.

The wall diffusers are supplemented by the **CFS slot diffusers** and the **Crossflow element CFE**. These were developed for installation in lightweight partition walls and have effective cross-talk sound insulation. The CFE provides the necessary air exchange, especially in rooms that have been subsequently partitioned off. Both types are extremely adaptable. The height can be selected in mm increments. For the CFE, the length can also be adjusted in mm increments.

#### INTRODUCING THE MULTIFUNCTIONAL SLOT DIFFUSER - CHM

QUIET. FLEXIBLE. INDIVIDUAL.



#### MAXIMUM FREEDOM OF DESIGN

- Aesthetic wall installation without suspended ceilings
- Available in various nominal widths for individual adaptation to your requirements
- Your choice of air diffusers, designs and colours



#### CONVINCING PERFORMANCE

- Uniform air distribution
- Integrated sound insulation for low acoustics
- Integrated volume flow limiter for type CHM
- Adjustable air control blades for guided air distribution in the room
- Easy and quick installation - no tools required to fix the front rail



#### LOWER COSTS

- No suspended ceilings required
- Less effort for air distribution
- Easy access for maintenance and cleaning

THE RIGHT SOLUTION FOR EVERY REQUIREMENT!

VERSATILE DESIGN AND CONFIGURATION OPTIONS

From different connection options to different airflow directions, number of slots, different installation options and designs; with our versatile and flexible slot diffusers we always have the right solution for you - for every requirement.

The example of our Pureline slot diffuser for the ceiling shows you the almost endless choices available when designing the right slot diffuser.

## OVERVIEW SLOT DIFFUSERS - APPLICATION AREAS AND OPTIONS

Well suited  Suitable

	PURELINE 18	PURELINE 35	PURELINE 50	SB	KS	TSD	VSD	CFS	CHS	CHM	CFE
<b>Preferred use</b>											
Office areas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hallways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Entrance areas	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fresh food counters	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storage areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Training and meeting rooms	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retail areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Swimming pools/Wellness areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cooling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Heating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Further characteristics</b>											
<input type="checkbox"/>											
<b>Volume flow rate/m at L<sub>WA</sub> = 35 dB(A)</b>											
1 Slot	65 - 72 m <sup>3</sup> /h	105 - 114 m <sup>3</sup> /h	143 - 157 m <sup>3</sup> /h	115 m <sup>3</sup> /h	60 - 100 m <sup>3</sup> /h	237.6 m <sup>3</sup> /h	244.8 m <sup>3</sup> /h	94 - 158 m <sup>3</sup> /h	95 - 185 m <sup>3</sup> /h		
2 Slots	115 - 125 m <sup>3</sup> /h	167 - 181 m <sup>3</sup> /h	238 - 267 m <sup>3</sup> /h		90 - 120 m <sup>3</sup> /h	432 m <sup>3</sup> /h	424.8 m <sup>3</sup> /h	117 - 217 m <sup>3</sup> /h	160 - 285 m <sup>3</sup> /h		
3 Slots		219 - 238 m <sup>3</sup> /h	343 - 390 m <sup>3</sup> /h		95 - 120 m <sup>3</sup> /h	619.2 m <sup>3</sup> /h	630 m <sup>3</sup> /h	129 - 212 m <sup>3</sup> /h	285 m <sup>3</sup> /h	175 - 200 m <sup>3</sup> /h	
4 Slots		257 - 300 m <sup>3</sup> /h	457 - 514 m <sup>3</sup> /h		120 m <sup>3</sup> /h	813.6 m <sup>3</sup> /h	763.2 m <sup>3</sup> /h		340 m <sup>3</sup> /h		Usual volume flow rates achieve lower sound power levels than 35 dB(A)
<b>Installation location</b>											
Ceiling	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Wall	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Air type</b>											
Supply air	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Extract air	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Supply and extract air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transferred air	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Airflow pattern</b>											
Horizontal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Slanted	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Vertical	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Different airflow directions at the same time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Further options</b>											
2 or more connecting spigots	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous linear arrangement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Standard dimension oriented to the drywall grid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sound-absorbing property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Plenum box configurable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## THE PRODUCT SOLUTIONS IN DETAIL

ANY QUESTIONS?



### WE WILL GLADLY ADVISE YOU.

Describe your specific needs to us or arrange a non-binding consultation.

Contact your TROX Specification Sales Team

**Mr Alan Cansell** (Key Client Director) and **Mr Steve Law** (Sales Director)

E-Mail: [consult@troxuk.co.uk](mailto:consult@troxuk.co.uk)

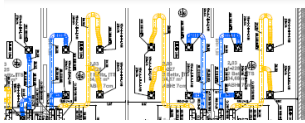
Phone: +44 (0)1842 754545

### TROX SERVICES



#### TROX EASY PRODUCT FINDER

Get more information on the TROX product range and download the sizing and selection tool



#### TROX DESIGN MANUALS

Easy and individual planning



#### ONLINE PRODUCT CONFIGURATOR

Design air conditioning and ventilation components quickly and easily



#### REFERENCES AND INSTALLATION IMAGES

TROX in action



#### MYTROX - ONLINE CUSTOMER PORTAL

Access all digital services in one easy and convenient place. Everything in just a click.



#### CONTACT US

For further information