

MULTIDIRECTIONAL DIFFUSERS FIXED SQUARE GEOMETRY

CR-KN
SERIES

OVERVIEW TECHNICAL DATA

OVERVIEW :

The new CR-KN four way diffusers represent an ideal solution for a fast completion of plants and HVAC projects using countersealing environments.

The units are available both in standard diffuser version or on a 595x595 panel for use on supporting structure.

FITTING :

Either by placing the unit on the countersealing frame or by fixing to a plenum or to the flexible duct by means of screws fixed on the sides of the neck size of the diffuser. The central cones can be removed using a spring type mechanism to the external frame, ensuring an easy and simple way of installing and fixing the unit into place.

MATERIALS AND FINISHING:

The CR-KN diffusers are made in aluminium and the panels for the CR-KN4TR model are made in pressed steel. All diffusers are varnished with an epoxy finish RAL 9010. This is carried out after assembly to remove any small aesthetic irregularities in the joints and to ensure a perfect union between diffuser and panel.

UNSUITABLE ENVIRONMENTS

The aluminum products are not suitable for installation in environments with an atmosphere containing corrosive substances for this material and in particular containing chlorine, such as swimming pools, spas and some types of food industries.

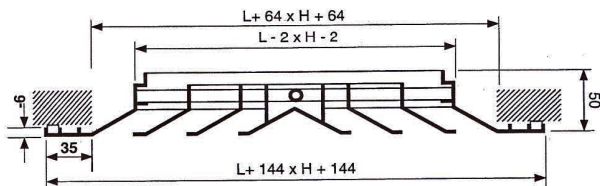
The products in painted carbon steel are not suitable for installation in environments with high humidity and in environments with a potentially explosive atmosphere or containing powders or vapors of corrosive substances



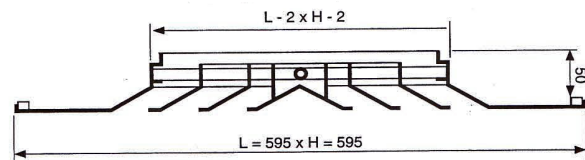
STANDARD VERSION



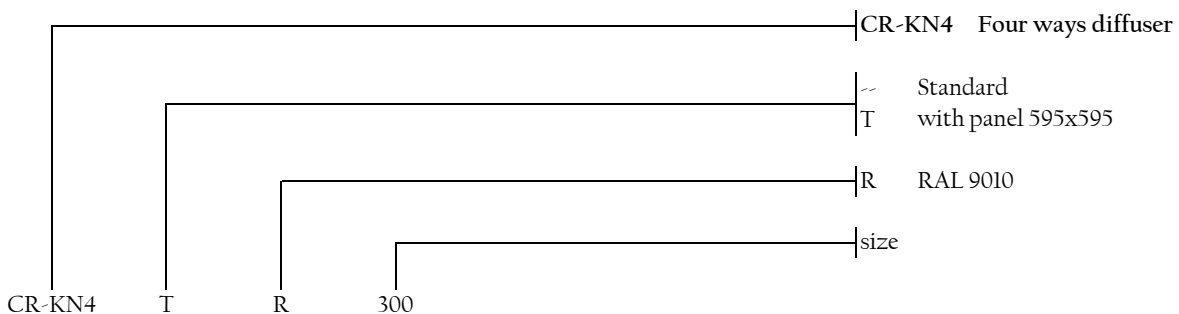
VERSION WITH PANEL



CR-KN4R



CR-KN4TR

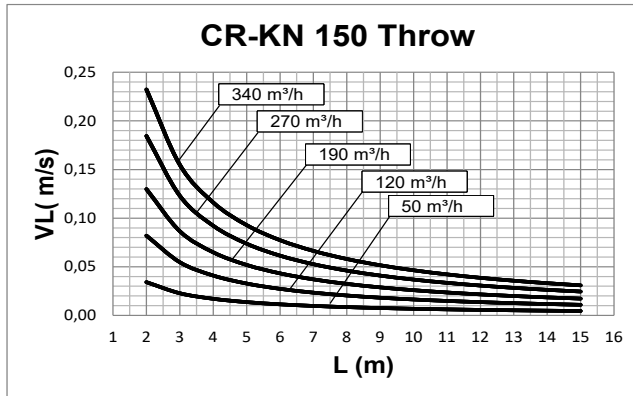




MULTIDIRECTIONAL DIFFUSERS FIXED SQUARE GEOMETRY

CR-KN
SERIES

PERFORMANCE CR-KN 150

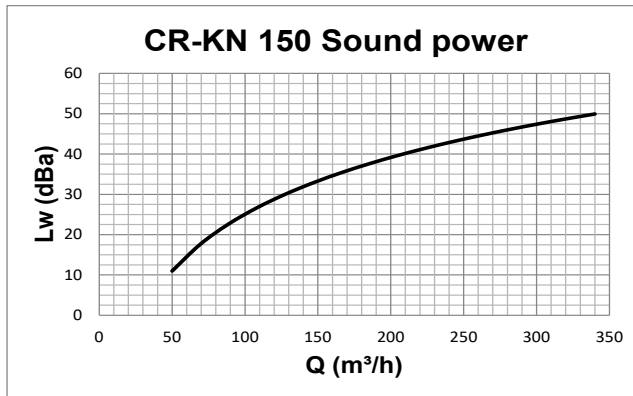


Data measured working in isothermal conditions in accordance with international standard:

ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

V_x (m/s) maximum speed inside the air stream

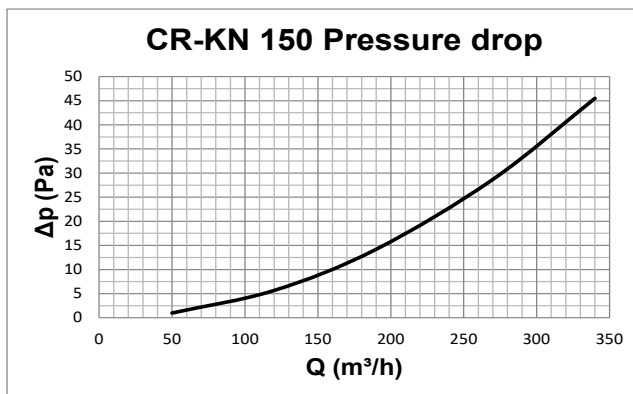


Data measured in reverberation room in accordance with international standards:

ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices; air terminal units; dampers and valves by measurement in a reverberation room.*

The shown data does not take into consideration the attenuation resulting from the surroundings where the diffuser is installed. Such attenuation is normally included between 6 and 10 dBa and is determined by the size of the surrounding space, its shape and the characteristics of the furniture and room fittings.

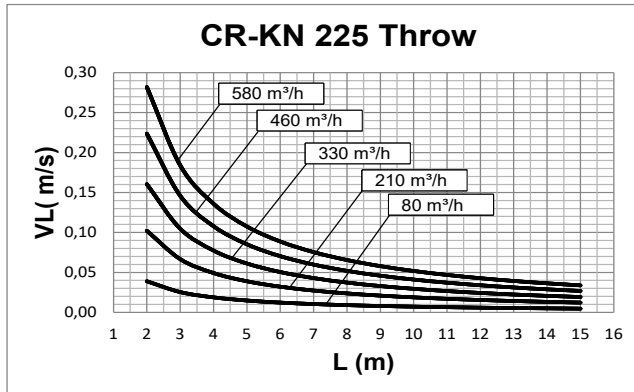




MULTIDIRECTIONAL DIFFUSERS FIXED SQUARE GEOMETRY

CR-KN
SERIES

PERFORMANCE CR-KN 225

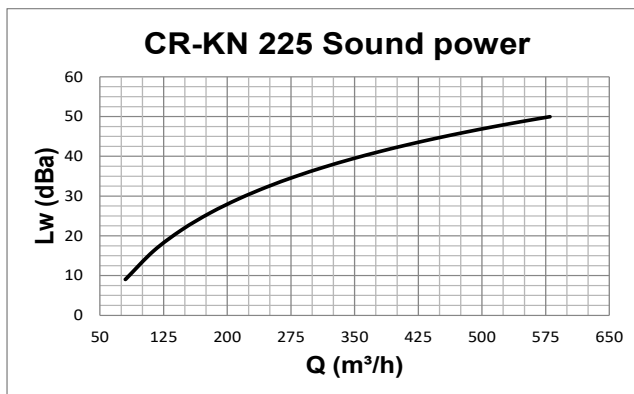


Data measured working in isothermal conditions in accordance with international standard:

ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

V_x (m/s) maximum speed inside the air stream

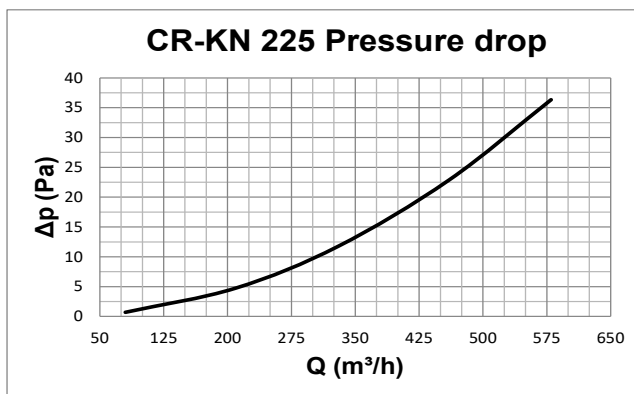


Data measured in reverberation room in accordance with international standards:

ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

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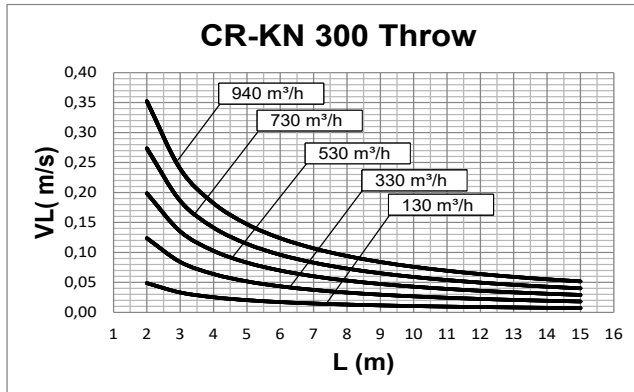




MULTIDIRECTIONAL DIFFUSERS FIXED SQUARE GEOMETRY

CR-KN
SERIES

PERFORMANCE CR-KN 300

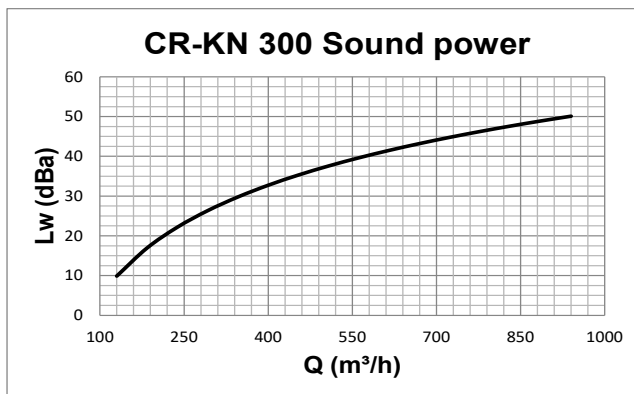


Data measured working in isothermal conditions in accordance with international standard:

ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

V_x (m/s) maximum speed inside the air stream

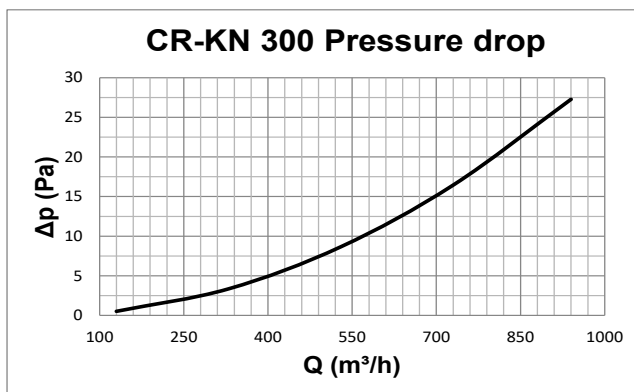


Data measured in reverberation room in accordance with international standards:

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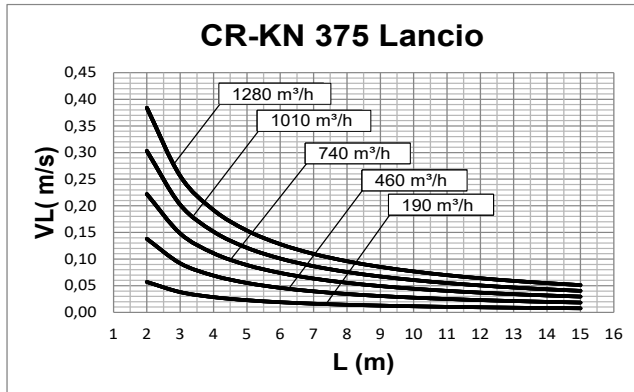




MULTIDIRECTIONAL DIFFUSERS FIXED SQUARE GEOMETRY

CR-KN
SERIES

PERFORMANCE CR-KN 375

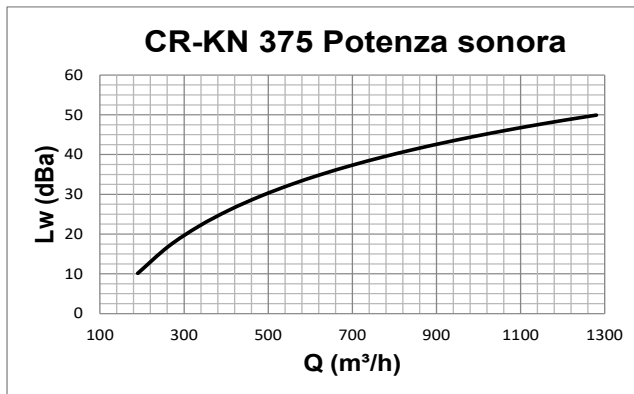


Data measured working in isothermal conditions in accordance with international standard:

ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

V_x (m/s) maximum speed inside the air stream

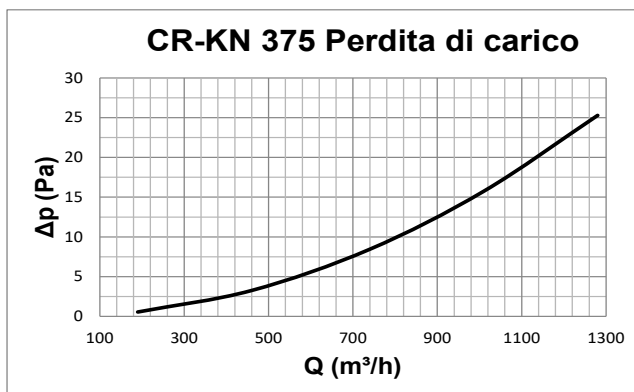


Data measured in reverberation room in accordance with international standards:

ISO 3741 1999: *Acoustic - determination of sound power levels of noise sources using sound pressure - Precision methods for reverberation rooms*

ISO 5135 1997: *Acoustic - determination of sound power levels of noise from air-terminal devices; air terminal units; dampers and valves by measurement in a reverberation room.*

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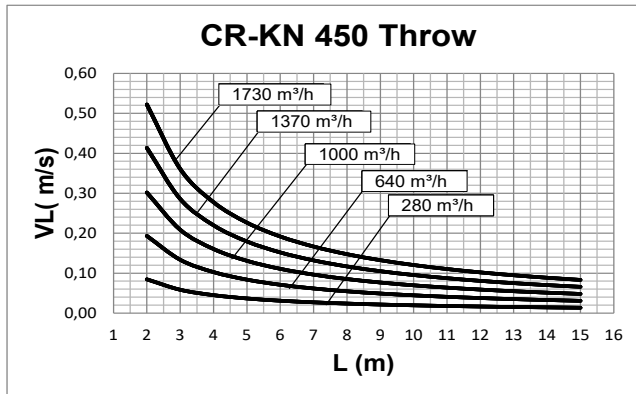




MULTIDIRECTIONAL DIFFUSERS FIXED SQUARE GEOMETRY

CR-KN
SERIES

PERFORMANCE CR-KN 450

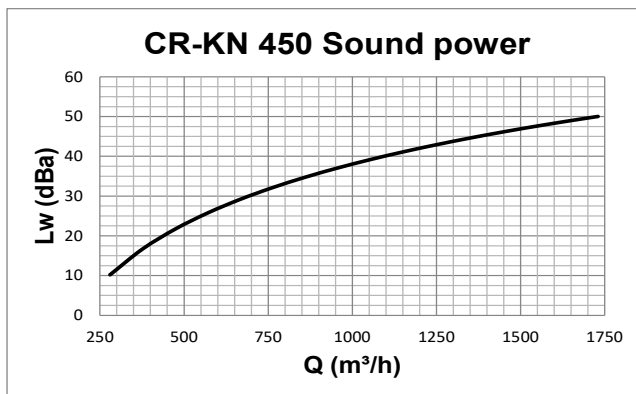


Data measured working in isothermal conditions in accordance with international standard:

ISO 5219 1984: *Air distribution and air diffusion - Laboratory. Aerodynamic testing and rating of air terminal devices.*

L (m) horizontal distance in metres from the centre of the diffuser

V_x (m/s) maximum speed inside the air stream

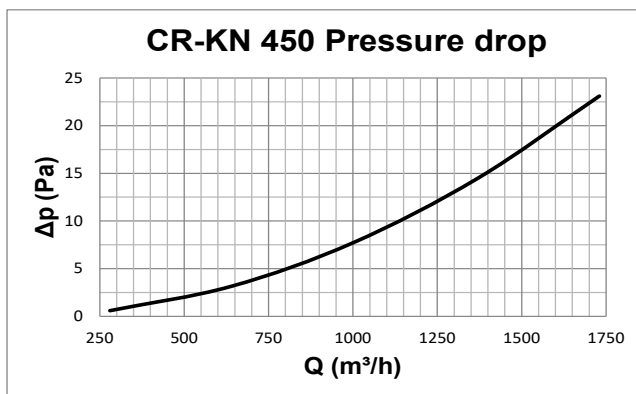


Data measured in reverberation room in accordance with international standards:

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CONTROL DAMPERS

SC
SERIES

OVERVIEW TECHNICAL CHARACTERISTICS

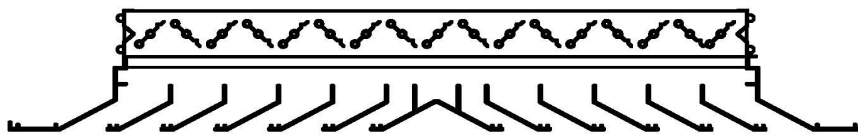
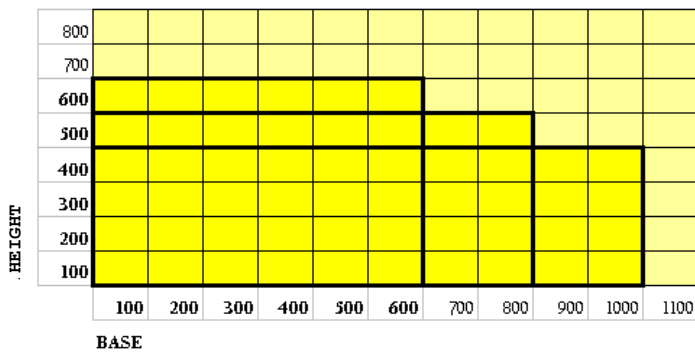
OVERVIEW AND CHARACTERISTICS :

The contrast control dampers of SC series can be fitted to UF KG UM UR GI KN e CR-KN series . They are held in place by special patented clips, designed both for fitting the damper to the grill and for fitting it on a false frame.

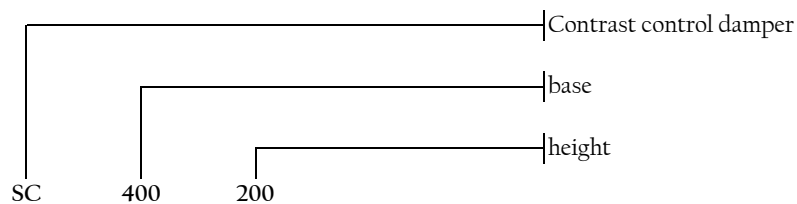
The SC series dampers are made entirely of galvanised steel and have a mechanism for moving and closing all the blades simultaneously.

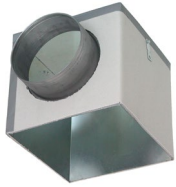
This mechanism is a simple longitudinal plate that links all the blades, and can be removed by unscrewing a nut using a screwdriver. The careful design, precise assembly, and the quality of the materials used, make this an economical, practical, and efficient component.

Contrast control damper- dimensions that can be created in a single solution



application on KN or CR-KN

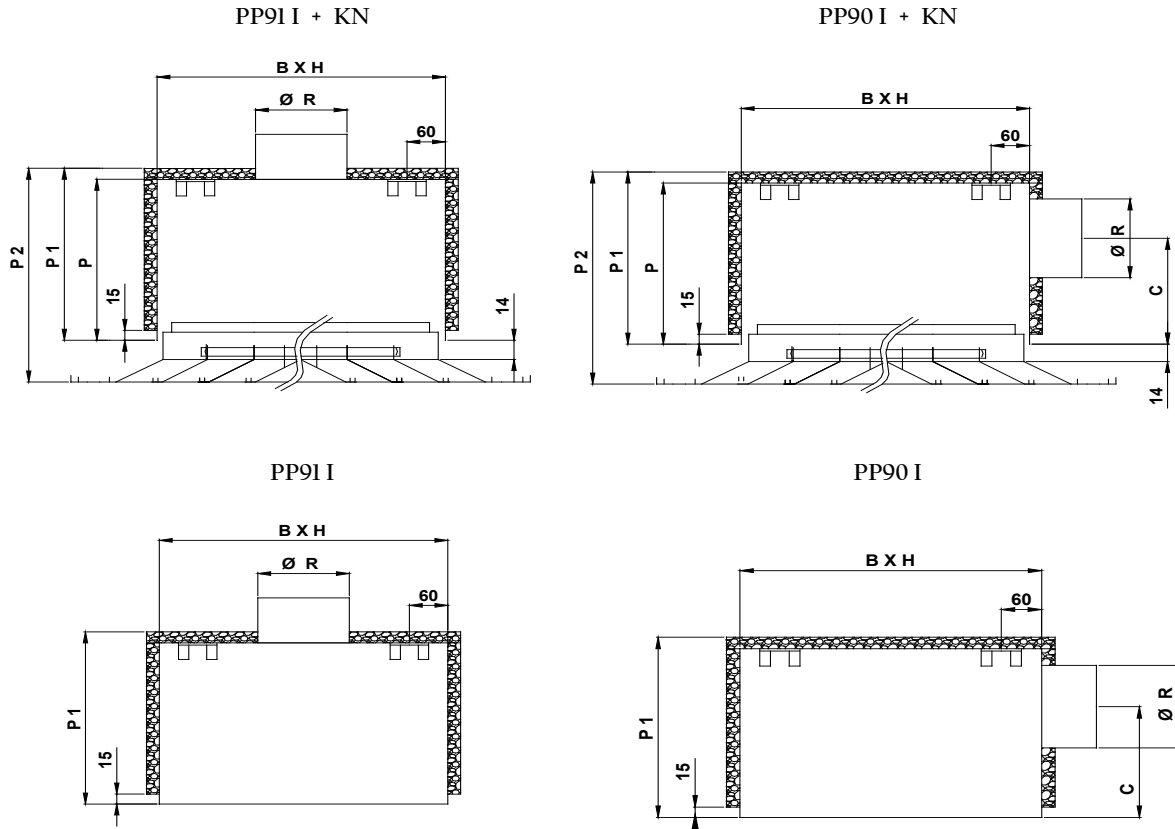




PLENUM FOR MULTIDIRECTIONAL DIFFUSERS FIXED GEOMETRY

OVERVIEW AND TECHNICAL CHARACTERISTICS

PP 90
PP 91
SERIES



B	x	H	P2	P1	P	Ø R	Connection	C	N° Couplins
150	x	150	254	216	210	123	ABS (*)	112	2
225	x	225	274	236	230	143	Steel	120	2
300	x	300	334	296	290	195	ABS (*)	155	2
375	x	375	334	296	290	195	ABS (*)	155	2
450	x	450	394	356	350	253	ABS (*)	185	4
525	x	525	444	406	400	296	Steel	215	4
600	x	600	444	406	400	296	Steel	215	4

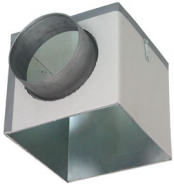
(*) Steel on request

CONSTRUCTION CHARACTERISTICS:

MATERIALS: The plenum is manufactured from galvanized sheet steel, external insulation has fire reaction class I.

MOUNTING OF PLENUM: The plenums are fixed and adjusted to the ceiling by threaded bars, putted into suitable supports.

MOUNTING OF DIFFUSER: The diffusers have to be fixed on the plenum by screws directly on the plenum's assembly bar.



PLENUM FOR
MULTIDIRECTIONAL DIFFUSERS
FIXED GEOMETRY

HOW TO ORDER

PP 90
PP 91
SERIES

