



DRS Submittal



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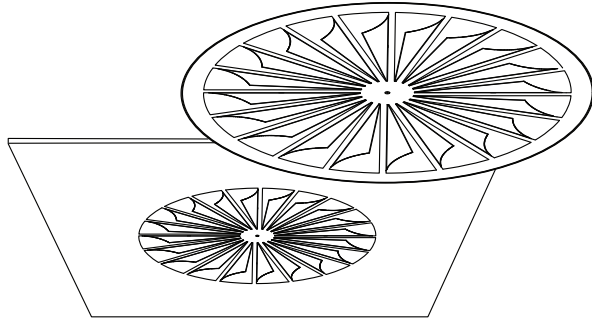
Date

Project

Engineer

Contractor

Configuration



The diffuser

- Made of 20 ga. galvanized steel.
- Round or square front plates equipped with bent blades.
- Horizontal airflow on 360 degrees.
- Adaptable in standard suspended ceilings or gypsum ceilings.
- Powder coated with a polyester TGIC-free paint.
- Surface lisse évitant l'accumulation de poussière.
- Easy-to-clean.
- Chip and fade resistant finish.
- Standard colour from the RAL colour chart choose by client.
- Attach to the plenum or spigot with a central screw.

The spigot

- Spigot made and tagged by the manufacturer.
- Spigot made of aluminum.
- Include a perforated plate stabilizing the air flow.
- Sized to meet the required air flow.

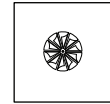
or

The plenum

- Plenum made and tagged by the manufacturer.
- Plenum made of 24 ga. galvanized steel
- The plenum include a perforated plate stabilizing the air flow.
- Hung by 4 points.
- Respect seismic norms.
- The inlet collar are centered on the side or on the top of the plenum.
- Size to meet the required air flow.
- Inner seals welded by pressure
- Sealed with COV emission free silicon.

Extra

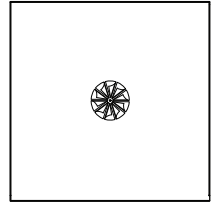
- Radial or axial balancing damper available.
- Fireproof damper available



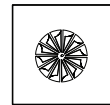
DRS - Q - 100/299



DRS - R - 100



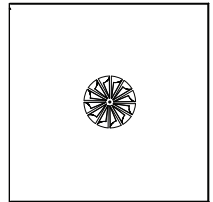
DRS - Q - 100/603



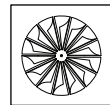
DRS - Q - 125/299



DRS - R - 125



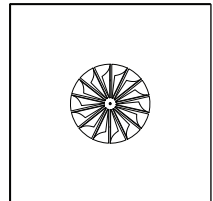
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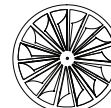
DRS - Q - 180/299



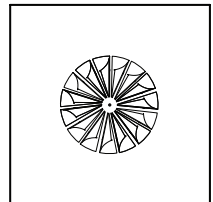
DRS - R - 180



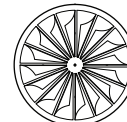
DRS - Q - 180/603



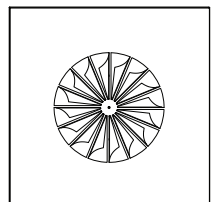
DRS - R - 215



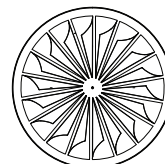
DRS - Q - 215/603



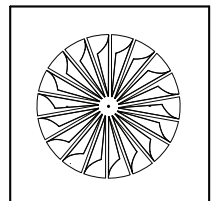
DRS - R - 250



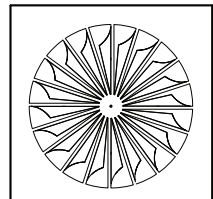
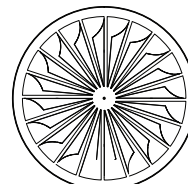
DRS - Q - 250/603



DRS - R - 315



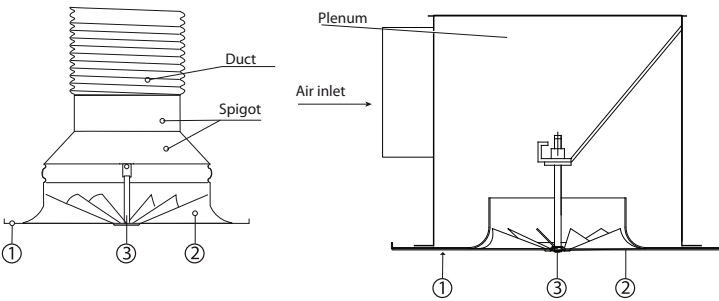
DRS - Q - 315/603



DRS - Composition and mode of operation

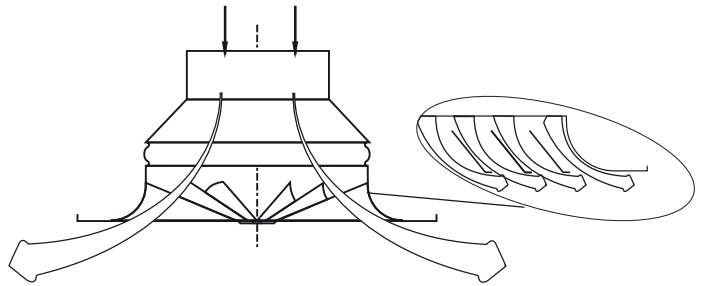
Composition of the DRS

The DRS diffuser is composed of a frontal plate (1) with blades which extend to the outlet of the diffuser (2). The diffuser is secured with a hidden central screw (3).

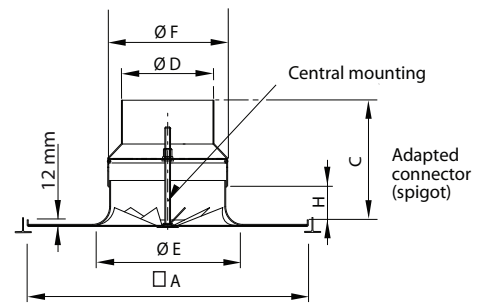
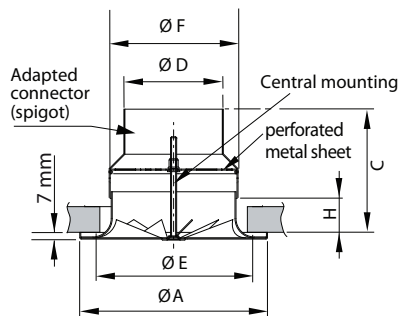


Mode of operation

The blades separate the flow of air into a number of smaller high induction airflows. The blades at the outlet of the diffuser guarantee consistent horizontal airflow while offering a cooling rate to a minimum of 25% in VAV.



DRS - Dimensions



DRS - R

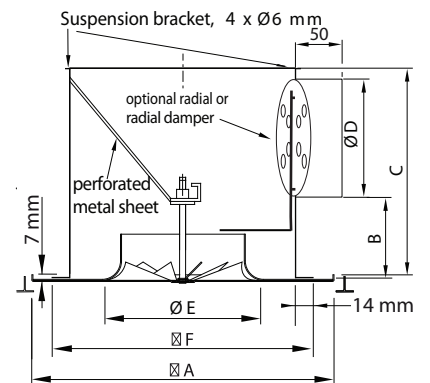
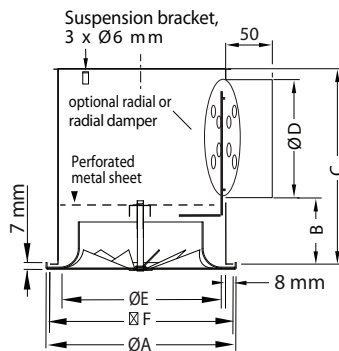
Installed in a gypsum ceiling with a connection adapter (spigot)

DN	100	125	180	215	250	315	355
Size ØA	155	185	280	335	380	490	550
Size C	96	112	119	143	143	169	185
Size ØD	100	125	150	175	200	225	250
Size ØE	120	150	245	300	345	455	515
Size ØF	100	125	180	215	250	315	355
Size H	12	14	24	24	28	38	40

DRS - Q

Installed in a suspended ceiling with an adapted connector (spigot)

DN	100	125	180	215	250	315	355
Size □A	299-603	299-603	299-603	299-603	603	603	603
Size C	96	112	119	143	143	169	185
Size ØD	100	125	150	175	200	225	250
Size ØE	120	150	245	300	345	455	515
Size ØF	100	125	180	215	250	315	355
Size H	6	7	18	18	22	32	34



DRS - R

Installed with a plenum - side inlet and outlet collar

DN	100	125	180	215	250	315	355
Size ØA	155	185	280	335	380	490	550
Size B	33	33	76	83	83	72	72
Size C	171	171	251	302	302	348	348
Size ØD	100	125	150	200	200	250	250
Size ØE	120	150	245	300	345	455	515
Size □F	138	154	246	295	332	420	468

DRS - Q

Installed with a plenum

DN	100	125	180	215	250	315	355
Size □A	299-603	299-603	299-603	299-603	603	603	603
Size B	33	33	76	83	83	72	72
Size C	170	170	251	312	312	347	347
Size ØD	100	125	150	200	200	250	250
Size ØE	120	150	245	300	345	455	515
Size □F	150	200	387	488	488	584	584

We only recommend installing a balancing damper in the air duct in gypsum ceiling applications.

DRS - Fireproof damper

Square Plenum

	DN 400			DN 500		DN 600	
DN	100	125	180	215	250	315	355
Cote □A	603	603	603	603	603	603	603
Cote C	400	400	400	500	500	560	560
Cote ØD	100	125	150	200	200	250	250
Cote □F	396	396	396	488	488	584	584

**Note : Balancing damper not available with fireproof damper.
Available only with square diffuser.**

Classified ULC (Underwriters laboratories of Canada), the NAD Klima diffusers with fire resistant dampers have a fire-resistant rating of 3 hours.

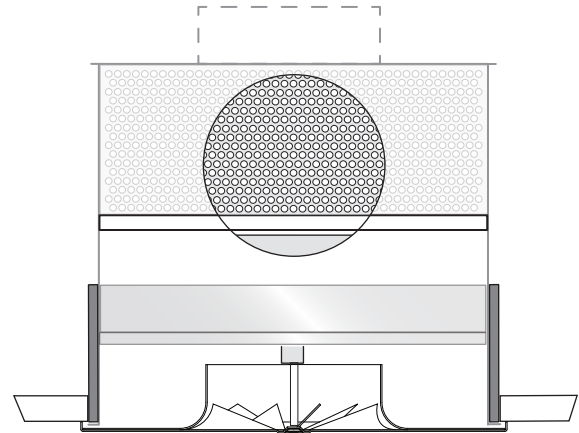
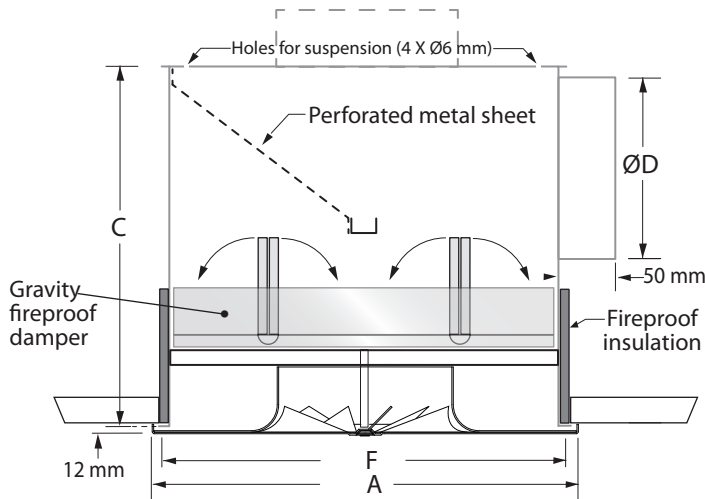
The fire-resistant damper is integrated directly to the plenum. This assembly is designed for installation in either a suspended or gypsum ceiling.



LISTED
Air Terminal Unit
R38924
CAN/ULC - S112.2 et CAN/ULC - S101



CLASSIFIED
CEILING AIR DIFFUSER
FIRE RESISTANCE CLASSIFICATION
ANSI/UL 555C et ANSI/UL 263



DRS - Codification

DRS							Product
Q = Squared - R = Round							Configuration
100, 125, 180, 215, 250, 315, 355							Nominal dimension
603, RND (round), 299 according to mounting dimensions (603 = 24" X 24" T-bar)							Dimension / plate
9003 = white 9010 = cream 00SB = Solar Black (Standard Black Matte) 00SM = Silver Matte (Metallic Gray Standard) _____ = RAL color (write RAL color number)							Diffuser color
S = Spigot P = Plenum with lateral input E = Plenum with lateral input and output with collar X = Without adapted connector (spigot) and without box							Spigot / Plenum
I = Acoustic insulation (plenum only) A = Acoustic insulation with closed cell (plenum only) X = without insulation							Acoustic Insulation
F = with fireproof insulation and fireproof damper (plenum only) X = without fireproof insulation and fireproof damper							Fireproof insulation
D = With axial damper (for plenum with lateral inlet only) R = With radial damper (for plenum with top and side inlet) X = Without damper							Balancing damper
DRS	Q	100	603	9003	S	X X X	Example