

DIRT & AIR SEPARATORS | MODELS DAS-2-R TO DAS-12-R | ASME, REMOVABLE DIRT/AIR CARTRIDGE UNITS | SUBMITTAL

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Job: _____ Representative: _____
 _____ Order no.: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

QUANTITY	TAG NO.	MODEL NO.	COMMENTS

TYPICAL SPECIFICATION

Furnish and install on the plans and described herein, an Armstrong DAS-R Dirt & Air Separator as manufactured by Armstrong. Each separator must be designed with a blow-down valve, skim valve, removable end cover, and automatic air vent. The separator must also utilize in its design a stainless steel coalescing medium to aid in the separation of air and dirt in the system entrained water. The separator must be constructed in accordance with the latest revision of the ASME Boiler and Pressure Vessel Code and stamped for 125 psi (862 kPa) working pressure.

Each separator shall be Armstrong model DAS-_____-R or approved equal.

NPT connections are available for sizes 2 to 4. Nomenclature: DAS-_____-R-N.

MAXIMUM OPERATING CONDITIONS

Working temperature: 250°F (121°C)

Working pressure: 125 psig (862 kpa)

MATERIALS OF CONSTRUCTION

Shell: Carbon steel

Coalescing medium: Stainless steel

Gasket (removable head): Styrene butadiene rubber (SBR)

Blow-down valve (optional): Bronze

Skim valve (optional): Bronze

Air vent (optional) 2" to 5": Brass (external)/Non-ferrous (internal)

Air vent (optional) 6" and up: Cast iron

DIRT & AIR SEPARATOR APPLICATIONS

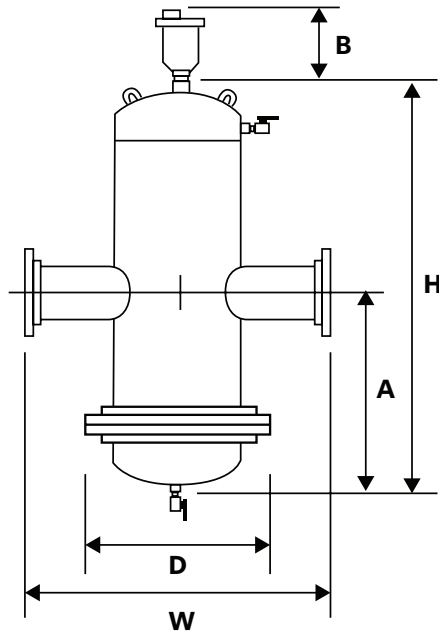
Armstrong Dirt & Air Separators are designed to eliminate entrained air and separate dirt particles associated with the start-up and maintenance of any hydronic system. The design incorporates a skim valve (optional), used to remove floating debris, a removable end cover for coalescing medium access and an air vent (optional) to automatically release air from the separator. The design and construction conforms to ASME Section VIII, Div. 1.

DIMENSIONS AND WEIGHTS

MODEL	CONN. SIZE	STANDARD FLOW	A	B	D	H	W	DRY WEIGHT	WET WEIGHT
		USgpm (L/s)	inches (mm)				lbs. (kg)		
DAS-2-R	2"	69 (4.4)	11.50	8.62	9.00	23.00	15.25 (387)	100 (45)	111 (50)
DAS-2-R-N			(292)	(219)	(229)	(584)	10.38 (264)	96 (43)	101 (46)
DAS-2.5-R	2.5"	108 (6.8)	11.50	8.62	10.00	23.00	15.75 (400)	125 (57)	143 (65)
DAS-2.5-R-N			(292)	(219)	(254)	(584)	11.00 (279)	115 (52)	133 (60)
DAS-3-R	3"	144 (9.1)	14.50	8.62	11.00	29.00	20.25 (514)	150 (68)	183 (83)
DAS-3-R-N			(368)	(219)	(279)	(737)	12.50 (318)	139 (63)	163 (74)
DAS-4-R	4"	225 (16.1)	14.50	8.62	13.50	29.00	20.62 (524)	250 (113)	308 (139)
DAS-4-R-N			(368)	(219)	(343)	(737)	15.00 (381)	234 (106)	268 (121)
DAS-5-R	5"	398 (25.1)	19.50	8.62	16.00	39.00	27.75 (705)	310 (140)	432 (195)
DAS-6-R	6"	570 (36.0)	19.50	8.62	19.00	39.00	27.75 (705)	375 (170)	550 (249)
DAS-8-R	8"	945 (59.6)	24.50	8.62	23.50	49.00	33.62 (854)	700 (317)	1091 (494)
DAS-10-R	10"	1440 (90.9)	32.50	8.62	27.50	65.00	37.50 (953)	1000 (452)	1810 (819)
DAS-12-R	12"	2100 (132.5)	38.00	8.62	32.00	76.00	42.50 (1080)	1500 (679)	2864 (1296)

Note:

- All dimensions are in inches (mm) and weights are in lbs. (kg).
- Standard capacity based on 0.55 psi drop at 6 fps flow velocity.



Air vent, blow-down & skim valve connections are 1/2" FNPT. Flanges are ASA, FF.

Allow a clearance below of 1.25 times the height of the unit for cartridge removal.

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