AGRIEMACHLTD

QUIET MUFFLER SPARK ARRESTORS



QUIET MUFFLER SPARK ARRESTORS

INDUSTRIAL MODEL 3S

Model 3S adapts to a wide range of engines from 2 to 50 HP. Recommended for engines to 10 HP where minimum exhaust noise is required and for larger engines where space is limited. Supplements an existing muffler where minimum exhaust noise is critical. U.S.D.A. Approved spark arrestor No. T-100.

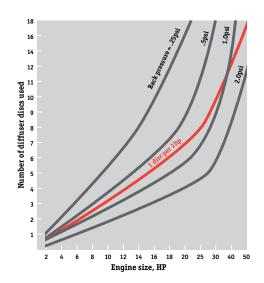
APPLICATIONS

Use approximately **1 Disc per 3 HP** on Model 3S. The graph on the right relates the number of discs used to the resulting back-pressure.

Using 1 disc per 3 HP insures that the back-pressure stays within the engine manufacturer's recommendations. The resulting back-pressure will not significantly affect power. 4-cycle engines will tolerate a back-pressure considerably

higher than 2 psi without endangering the engine. The accessory Resonator (part no. 3S-5500) is recommended if further exhaust silencing is required (3 to 5 dbA added reduction). For critical noise applications reducing the number of discs used is suggested, however, some power loss may result. In addition, engine shielding or an engine enclosure will be required to reduce the other engine and mechanical noises to that of the silenced exhaust.

The number of discs used may need to be increased if the Agriemach SuperTrapp is used on an engine rated below 2400 rpm. Engines with dual exhausts should divide the recommended number of discs.









Standard configuration

With optional resonator

Flourating	Number	Inlet sizes	available
Flow rating at 1 psi back-pressure	of discs required vs. engine size	T threaded	C Clamp-On
up to 250 CFM (18 discs)	1 disc per 3 HP	¹/2"to 1¹/2" NPT *	1" to 2" dia.

	Length		Weight	
Diameter D	L _s Standard config.	L _R With optional resonator	Standard config.	With optional resonator
3″	3 ⁷ / ₈ " + .08" /disc	6½" + .08" /disc	9oz. + 1 oz/disc	19oz. + 1 oz/disc

INDUSTRIAL MODEL 5S

Model 5S supplements an existing muffler where minimum exhaust noise is critical. U.S.D.A. Approved spark arrestor No. T-101.

APPLICATIONS

Use approximately **1 Disc per 7 HP** on Model 5S. The graph on the right relates the number of discs used to the resulting back-pressure.

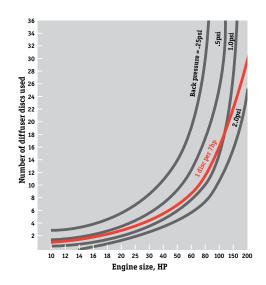
Using 1 disc per 7 HP insures that the back-pressure stays within the engine manufacturer's recommendations.

The resulting back-pressure will not significantly affect power. 4-cycle engines will tolerate a back-pressure considerably higher than 2 psi without endangering the engine.

The accessory Resonator (part no. 5S-5500) is recommended if further exhaust silencing is required (4 to 6 dbA added reduction). For critical noise applications reducing the number of discs used is suggested, however, some power loss may result. In addition, engine shielding or an engine enclosure will be required to reduce the other engine and mechanical noises to that of the silenced exhaust.

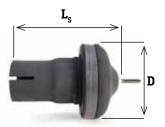
If the Agriemach SuperTrapp is added to an engine rated below 2400 rpm, the number of discs should be increased (doubling the recommended number of discs will ensure a negligible change in the original exhaust backpressure). Engines with dual exhausts should divide the recommended number of discs.

The Agriemach SuperTrapp discs will require frequent cleaning if used with oily or sooty exhausts or on malfunctioning engines (as evidenced by a visible exhaust).

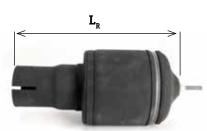




Elouveting	Number	Inlet sizes available	
Flow rating at 1 psi back-pressure	of discs required vs. engine size	T threaded	C Clamp-On
up to 1050 CFM (36 discs)	1 disc per 7 HP	1" to 2" NPT	1 ⁵ / ₁₆ " to 5" dia.







With optional resonator

	Length		Weight	
Diameter D	L _s Standard config.	L _R With optional resonator	Standard config.	With optional resonator
5″	Under 2" inlet: 4" + .13" per disc	Under 2" inlet: 8 ¹ / ₈ " + .13" per disc	1lb.6oz + 2.4oz per disc	3lb. 4 oz
	2" inlet and larger: 51/4" + .13" per disc	2" inlet and larger: 9 ³ / ₈ " + .13" per disc		+ 2.4oz per disc

PARTS LIST

ADAPTORS

A complete 3S or 5S model consists of the **adaptor** and **diffuser discs**. These components are sold separately. For OEM use all models may be factory assembled.



3S

THREADED

T = Male NPT

SIZE T	PART NO.
¹/2" NPT *	3S-0500T
³/4" NPT *	3S-0750T
1" NPT *	3S-1000T
11/4" NPT	3S-1250T
11/2" NPT	3S-1500T

CLAMP-ON

C = Exhaust pipe O.D.

SIZE C	PART NO.
1"	3S-1000
1.050" (3/4" NPT)	3S-1050
11/4"	3S-1250
1.312" (1" NPT)	3S-1312
1 ¹ / ₂ "	3S-1500
1.660" (1 ¹ / ₄ " NPT)	3S-1660
1³/₄"	3S-1750
2"	3S 2000

5S

THREADED

T = Male NPT

SIZE T	PART NO.
1" NPT	5S-1000T
11/4" NPT	5S-1250T
1¹/2" NPT	5S-1500T
2" NPT	5S-2000T

CLAMP-ON

C = Exhaust pipe O.D.

SIZE C	PART NO.
1.312" (1" NPT)	5S-1312
13/8"	5S-1375
11/2"	5S-1500
15/8"	5S-1625
1.660" (1 ¹ / ₄ " NPT)	5S-1660
1 ³ / ₄ "	5S-1750
17/8"	5S-1875
1.900"(1½" NPT)	5S-1900
2"	5S-2000
2 ¹ / ₄ "	5S-2250
21/2"	5S-2500
3"	5S-3000
3.5"	6S-KC1990
4"	6S-KC1984
4.5"	6S-KC1985
5"	6S-KC0000

Additional Sizes Available for 0.E.M. Use $\,$

DIFFUSER DISCS

TIEM	DESCRIPTION	35 PARI NU.	55 PAKI NU.
3-PACK	Required – use with above	3S-6503	5S-6503
12-PACK	ADAPTORS	3S-6512	5S-6512
ITEM	DESCRIPTION	3S PART NO.	5S PART NO.
Resonator	Accessory – for 3 to 5 dbA	3S-5500	
3S	additional noise reduction		
Resonator	Accessory – for 4 to 6 dbA		5S-5500
5S	additional noise reduction		
End cap	Replacement	3S-3031	5S-3052
Center	Replacement – standard	3S-7363	5S-7619
bolts	length (with end caps)		
Center	Replacement – resonator	3S-7575	5S-7888
bolts	length		



^{*} NPT measured by inside inlet size.