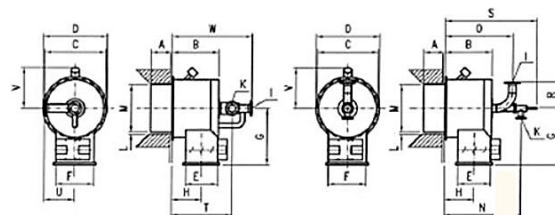




## Dust Burner BMS Technology



### OUR SOLUTION IS CENTERED ON OUR OPTIMAL PATENTED BURNERS.

The dust burner has been conceived with a quadruple-flow air system and internal air staging.

A central ring nozzle feeds in the primary carrier airflow with a high fuel load and at a high exit impulse. This flow is surrounded by an extremely spiraled secondary airflow, which secures flame stabilization and functionality because of its superior internal circulation.

The design for the total flow has been conceived in such a manner that the central fuel flow practically penetrates the return-flow zone over the whole load range, so forming a type 1 flame. This intensely reducing flame core zone is surrounded by the core and the outer air stream.

Twist-free core air serves mainly to influence the temperature in the area of the burner cone. An adequate temperature must be maintained here to ensure safe and thorough fuel ignition.

Temperature peaks, which could cause slag formation at the burner mouth, are avoided.

The outer air stream acting as staging air assists the complete combustion of the primary mix. Secondary, core and outer air can be adjusted separately by means of a mechanical damper system so that an optimum mixing capacity can be realized over the whole load range. This permits a wide adjusting turndown ratio of 1:5 to 1:10 depending on the application.

Burner type nominal capacity	3.2 MW	6.3 MW	10 MW	16 MW	25 MW	32 MW	40 MW
A. short (mm)	193	251	316	417	519	590	660
A. long (mm)	266	376	475	603	757	860	950
B (mm)	395	548	683	880	1032	1365	1365
C (mm)	540	745	895	1120	1400	1770	1770
D (mm)	580	780	930	1160	1450	1860	1860
E (mm)	274	382	480	604	753	953	953
F (mm)	323	450	564	712	888	1122	1122
G (mm)	650	700	825	950	1185	1650	1650
H (mm)	251	350	436	571	643	870	870
I (DN)/PN 16	40	65	80	100	125	150	150
K (DN)/PN 16	65	80	100	125	150	150	150
L (mm)	10	10	10	10	10	15	15
M (mm)	408	568	714	900	1123	1220	1446
N (mm)	726	967	1209	1429	1674	2090	2090
O (mm)	596	772	947	1129	1411	1768	1768
R (mm)	295	375	420	565	700	920	920
S (mm)	1017	1240	1478	1880	2060	2733	2733
T (mm)	534	697	867	1079	1392	1715	1715
U (mm)	242	340	425	540	665	940	940
V (mm)	468	604	691	782	915	1200	1200
W (mm)	792	998	1257	1507	1900	2300	2300
Z - Oil connect.	18	18	18	22	22	25	25 (40)
Ign. Gaz connect.	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Weight in kg	280	480	900	1300	1850	3200	3400