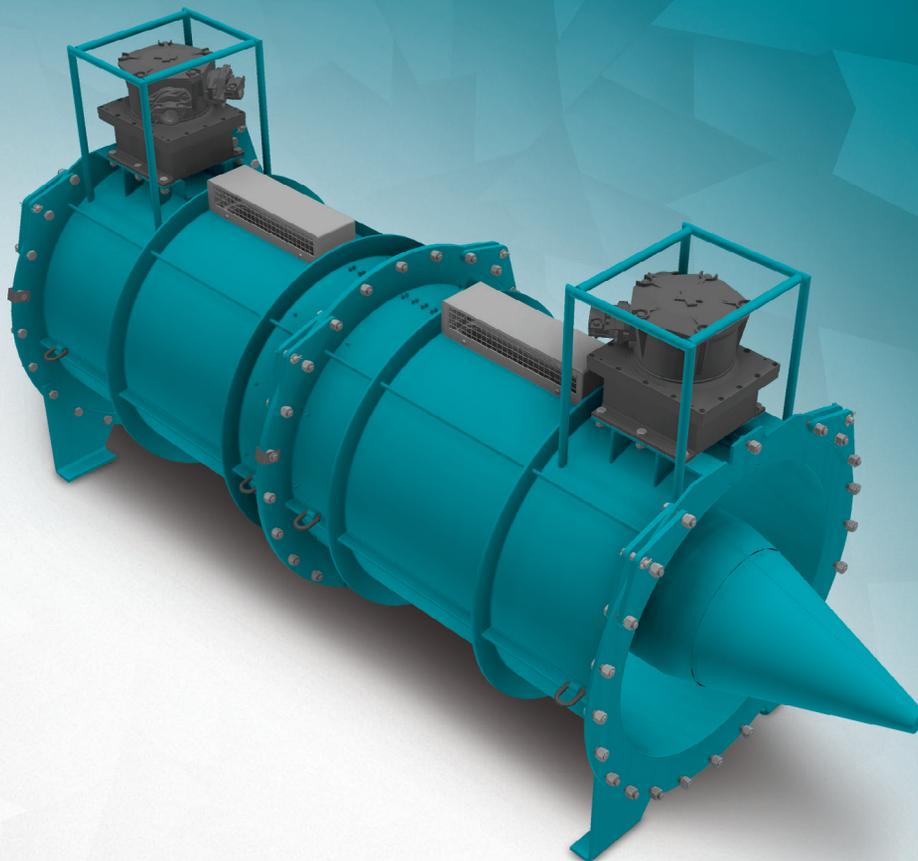




ZWLP
SIGMA 900/P
CONTRA-ROTATING AXIAL FLOW FAN



Contra-rotating axial flow fan ZWLP-SIGMA 900/P is designed for independent/separate ventilation of underground mining excavations (e.g. in coal mines, copper mines). Contra-rotating axial flow fan ZWLP-SIGMA 900/P is able to operate in forcing or exhaust ventilation system, as well as with auxiliary cooling or dedusting air-ducts (i.e. combined ventilation). ZWLP-SIGMA 900/P can be applied as set of two fans mounted in series or parallel in ventilation systems mentioned above.

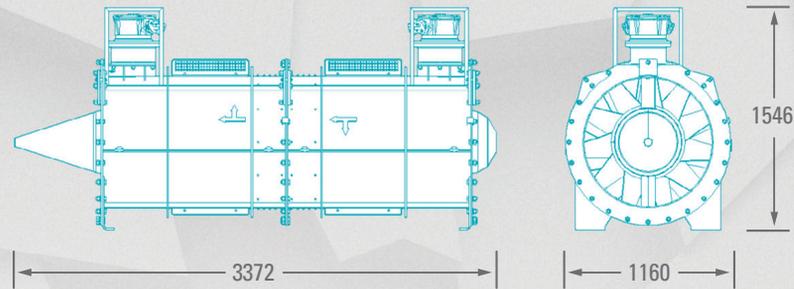
Contra-rotating axial flow fan ZWLP-SIGMA 900/P can be supplied with voltage range version of 500 V or 500V/1000 V.

Contra-rotating axial flow fan ZWLP-SIGMA 900/P can be applied in underground mining methane and non-methane excavations, considered as level "a", "b" and "c" area exposed to methane explosion hazard, as well as grade "A" and "B" of coal dust explosion hazard. Contra-rotating axial flow fan has been classified as Group I, category M2 due to its application in areas exposed to explosion hazard (according to directive 2014/34/UE).

WL-SIGMA 900-P

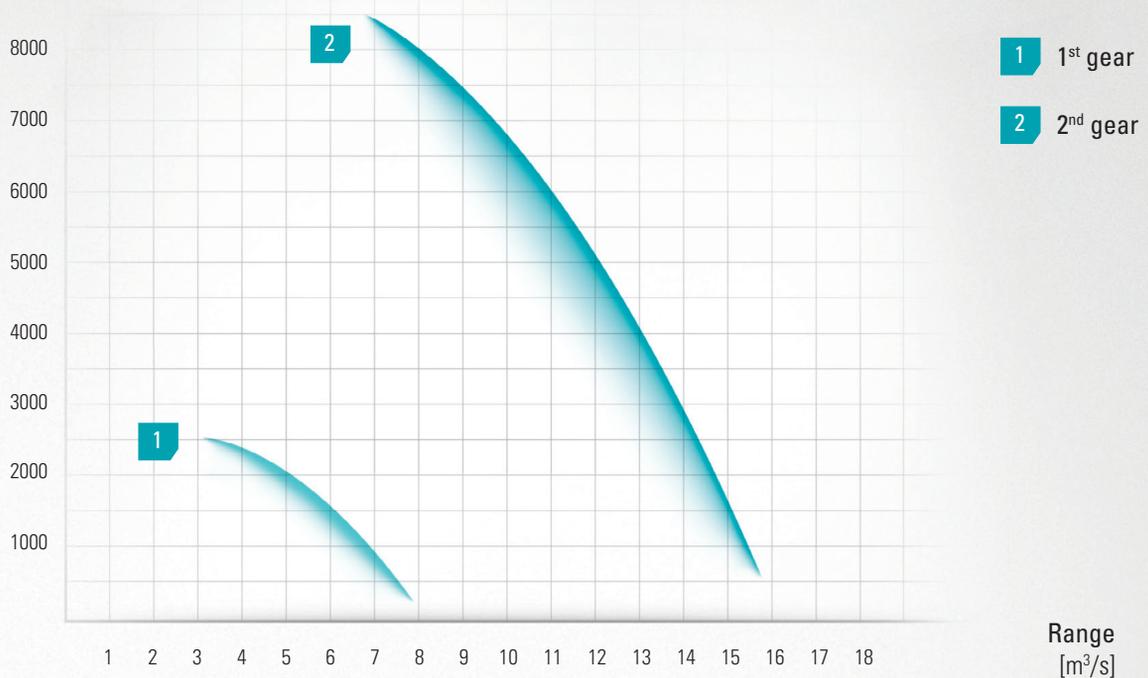
CONTRA-ROTATING AXIAL FLOW FAN

DIAGRAM



CHARACTERISTICS

Pressure - Dp_c
[Pa]



TECHNICAL CHARACTERISTICS

NOMINAL VOLUMETRIC FLOW (Q) [m³/s]	6 (1 st gear), 11 (2 nd gear)	FAN INTERNAL DIAMETER [mm]	900
NOMINAL TOTAL PRESSURE INCREASE (P) [Pa]	1600 (1 st gear), 6100 (2 nd gear)	FAN EFFICIENCY [%]	56 (2 nd gear)
MAX. TOTAL PRESSURE INCREASE (P) [Pa]	2550 – 200 (1 st gear) 8500 – 500 (2 nd gear)	INCREASE OF FORCING AIR TEMPERATURE [°C]	1 – 2
CAPACITY OF FAN [m³/s]	3 – 8 (1 st gear) 6,5 – 16 (2 nd gear)	RATED VOLTAGE [V]	500 or 500/1000