

INLET CONDITIONS		
	UNITS	
GAS FLOW	Am ³ /h	36,593*
	Nm ³ /h	30,000
GAS TEMPERATURE	°C	60
GAS PRESSURE	mm WG	0
H ₂ O	% vol	19.6 (SATURATED)
PARTICULATE LOADING	kg/h	8.97
	mg/Nm ³ Wet	245**

*TURBOSONIC ASSUMED THAT THE CONDITIONS DESCRIBED ABOVE ARE AFTER SATURATION REACHED THROUGH PORTOVESME'S EXISTING VENTURI SCRUBBER.
**TURBOSONIC PRESUMED THAT PORTOVESME'S EXISTING SCRUBBER REMOVES 65% OF FILTERABLE PARTICLES.

OUTLET CONDITIONS		
	UNITS	
GAS FLOW	Am ³ /h	36,593
	Nm ³ /h	30,000
GAS TEMPERATURE	°C	60
GAS PRESSURE	mm WG	25
H ₂ O	% vol	19.6 (SATURATED)
PARTICULATE LOADING	kg/h	0.2
	mg/Nm ³ Wet	5
WESP REMOVAL EFFICIENCY	%	97.96

DESIGN PARAMETERS		
	UNITS	
PRESSURE DROP ACROSS WESP	mm WG	25
PERFORATED PLATES FLUSH		
	m ³ /h	15.1
FLUSH FREQUENCY AND DURATION	min/hr	2/12
MINIMUM PRESS. (AT NOZZLE ELEV)	barg	1.38
FIELD FLUSH		
	m ³ /h	49
FLUSH FREQUENCY AND DURATION	min/hr	2/3
MINIMUM PRESS. (AT NOZZLE ELEV)	barg	1.38

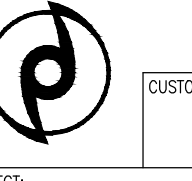
ELECTRICAL SYSTEM		
PRECIPITATOR - TRANSFORMER/RECTIFIER		
PRIMARY POWER (V/PH/Hz)	400/3/50 NAMEPLATE	
CONNECTED	kVA/KW	34/32
DEMAND	kVA/KW	25.1/22.2
INSULATOR HEATERS	V/PH/Hz	400/3/50
POWER CONNECTED	kW	16 (4 x 4)
POWER CONSUMED	kW (AVG USED)	12.6
WESP DESIGN LIMITS		
TEMPERATURE (MAXIMUM)	°C	150
PRESSURE (MAXIMUM)	mm WG	+500

Portovesme S.r.l.		STABILIMENTO DI PORTOVESME	
ITEM: 40-FE-503		Disegno N. 405-WF-03-01	
FILE: 405-WF-03-01		REV-01 (P&ID).dwg	

REV	DRN	DATE	DESCRIPTION
1	L.M.	10/08/12	INSERIMENTO NUMERAZIONE STRUMENTAZIONE

REVISIONS

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DRN:	DPH			TURBOSONIC INC. WATERLOO, ONTARIO, CANADA	
DATE:	7/26/12				
SCALE:	NTS	CUSTOMER:		PORTOVESME, S.R.L.	
PLOT:	1:1	PROJECT:		WESP SYSTEM	
JOB #:	5057-WSP	DESCRIPTION:		PROCESS AND INSTRUMENTATION DIAGRAM	
CUST. JOB #:		CHK:	DRAWING #:	REV:	
D.E. JOB #:		DATE:	5057-300-001	1	

- GENERAL NOTES:
- 1) REFER TO QUOTATION Q12-1707 (AS SOLD) FOR SCOPE OF SUPPLY.
 - 2) ONLY ITEMS MARKED WITH AN ASTERISK (*) ARE SUPPLIED BY TURBOSONIC.
 - 3) FIELD PIPING IS NOT SUPPLIED BY TURBOSONIC.
 - 4) FIELD WIRING IS NOT SUPPLIED BY TURBOSONIC.
 - 5) CONNECTING DUCTWORK TO AND FROM WESP IS NOT SUPPLIED BY TURBOSONIC.
 - 6) THE INSULATOR COMPARTMENT CAPS ARE REQUIRED TO BE INSULATED. THIS IS NOT SUPPLIED BY TURBOSONIC.
 - 7) ANY HEAT TRACING AND INSULATION FOR LIQUID PIPING (IF REQUIRED) IS NOT SUPPLIED BY TURBOSONIC.