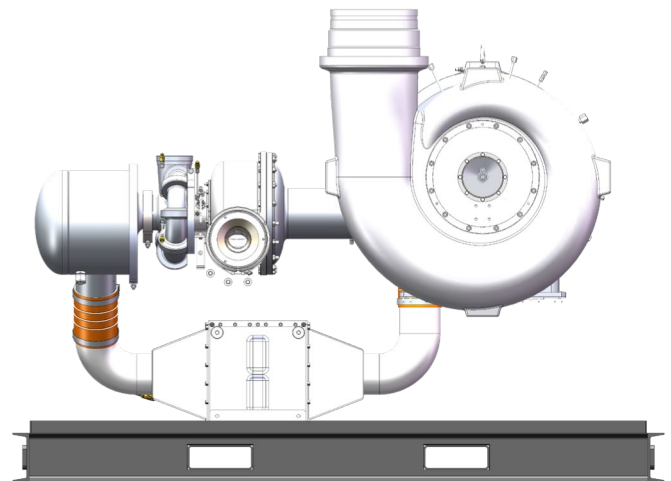
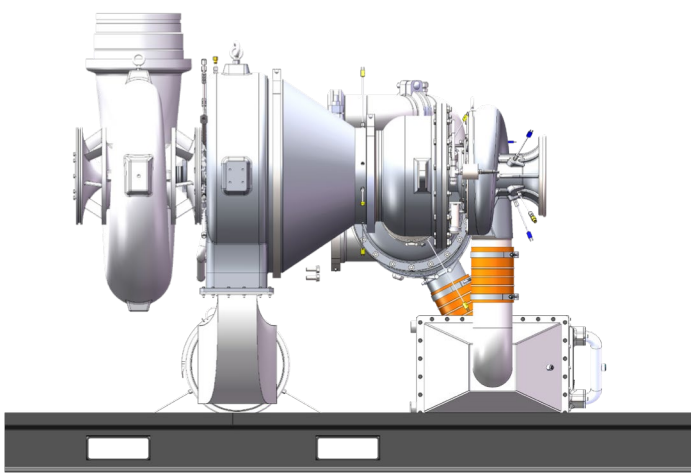


GAS TURBINE TURBO BLOWER:

- 1** provides power grid independence for wastewater treatment plants
- 2** can operate with natural gas or biogas
- 3** decreases operating costs by more than 40% for natural gas and over 80% for biogas compared to old products
- 4** reduces power consumption
- 5** reduces environmental footprint
- 6** lowers greenhouse gas emissions by reducing operating costs for wastewater treatment plants and processes
- 7** preventing flaring
- 8** minimal maintenance and downtime



PRODUCT FEATURES:

FUEL-FLEXIBLE
COMBUSTOR

REMOTE
MONITORING

MODULAR
DESIGN

HIGH SHAFT
THERMAL
EFFICIENCY

INTEGRATED
INLET AIR
FILTERS

GT-BLOWER 300HP - Performance Data

Ambient Conditions

Blower installation location	Indoor/Outdoor
Working fluid	Air
Ambient pressure	14.7 PSIA
Elevation	Sea level to 8,000 feet
Ambient temperature	-25 to 118 °F

Design Conditions

Inlet temperature	68 °F
Relative humidity	65%
Pressure range	4 - 15 PSIG
Flow rate per blower range	2,300 – 9,000 SCFM

Turbo Blower Supplied Performance

Rated Discharge Pressure	7/10.7/14 PSIG
Shaft Power @ design condition per blower	230 kW/308 BHP
Maximum Air Flow @ duty discharge pressure/blower	9,000/6,400/4,700 SCFM
Minimum Air Flow @ duty discharge pressure/blower	4,200/2,300/2,300SCFM
Turndown from maximum flow to minimum flow	>50 %
Discharge temperature @ design condition	150/190/220 °F
Maximum discharge pressure	17 PSIG

Note: approximate data - subject to change

Gas Turbine Performance

Natural gas flow @ design condition per blower	35 SCFM
Natural gas heat input @ design condition per blower (LHV)	1.9 MBtu/hr
Digester gas flow @ design condition per blower	59 SCFM
Digester gas heat input @ design condition per blower (LHV)	1.9 MBtu/hr
Fuel inlet pressure	134 PSIG

Note: approximate data – subject to change

LHV: lower heating value. Natural Gas LHV = 47.5 MJ/kg. Digester Gas (CH₄ - 62%vol) LHV = 18.9 MJ/kg.

Notes

Maximum noise level @ 3 feet	80 dBA
Dimensions per blower (length/width/height)	125/80/90 inches
Weight per blower	7,500 lbs
Gas turbine blower entry type	louwered or flanged

Note: approximate data - subject to change.

Specifications

Operating Conditions

Relative humidity	0% - 98% ¹
Operating temperature	-22 °F - 113 °F
Atmospheric pressure range	12.3 - 14.8 PSIA
	7 PSIG
Blower pressures	10.7 PSIG
	14 PSIG

¹ Non-condensing

Note: approximate data - subject to change

Fuels

Fuel type	Natural gas
	Treated biogas
Maximum allowed H ₂ S content	5000 ppmv ¹
Maximum allowed siloxane	5 ppbv

¹ Dry gas basis

Exhaust Characteristics

NOx emission at 15% O ₂ at full power	<1.7 ppmv for natural gas & treated biogas ¹
CO emission at 15% O ₂ at full power	<4.1 ppmv for natural gas & treated biogas ¹
Exhaust emissions standards	BACT/LAER & CARB DG, California
Exhaust gas flow at full power	1742 SCFM
Exhaust gas temperature at full power	400 °F
Heat rejection from inter-cooler	120 kW ²
Oil cooler & gas booster combined heat rejection	20 kW ²
Heat rejection from exhaust gas	200 kW ²

¹ Natural gas and pre-treated biogas

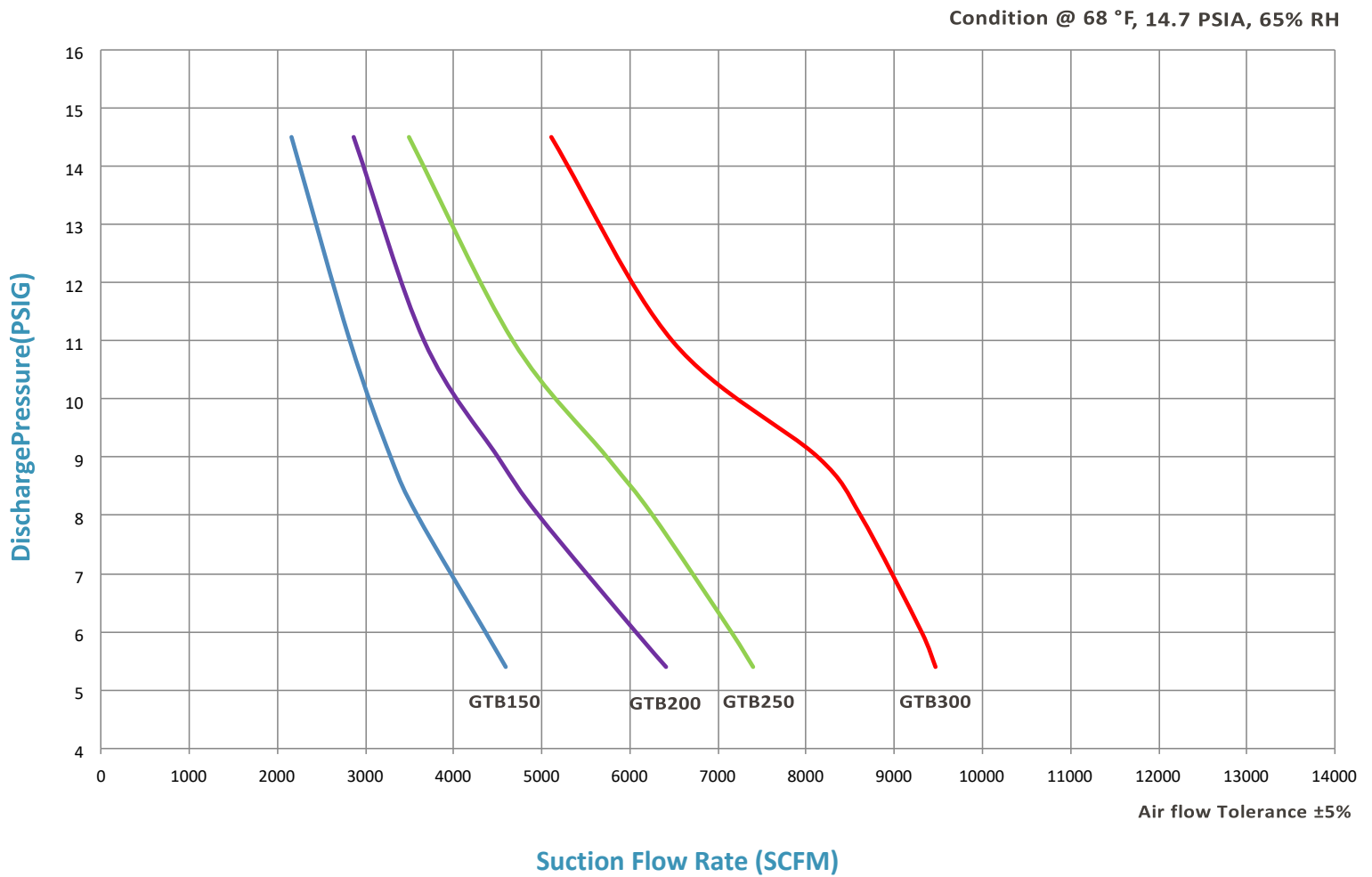
² When combined Heat and Power Recovery System is included

Note: approximate data - subject to change



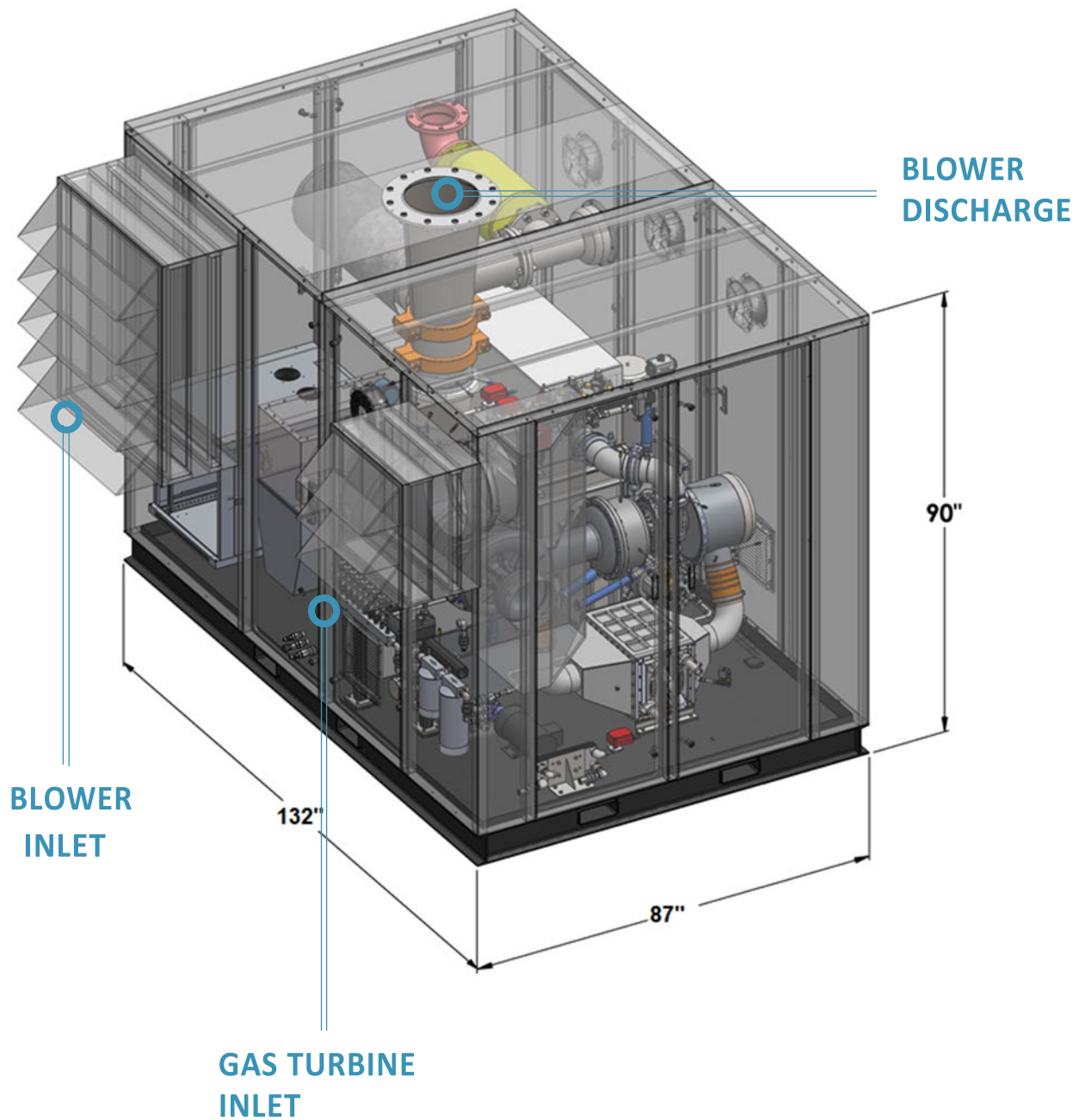
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SIGNIFICANT COST SAVINGS
PREVENTS FLARING**

Performance Curves



**DISCOVER THE UNTAPPED POTENTIAL OF
WASTEWATER TREATMENT PLANTS
FROM WASTE TO RECOVERY**

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