



POWER TO PROFIT

GAS ENGINE DRIVEN CHILLERS

Water-cooled 525-1400kW

FEATURES

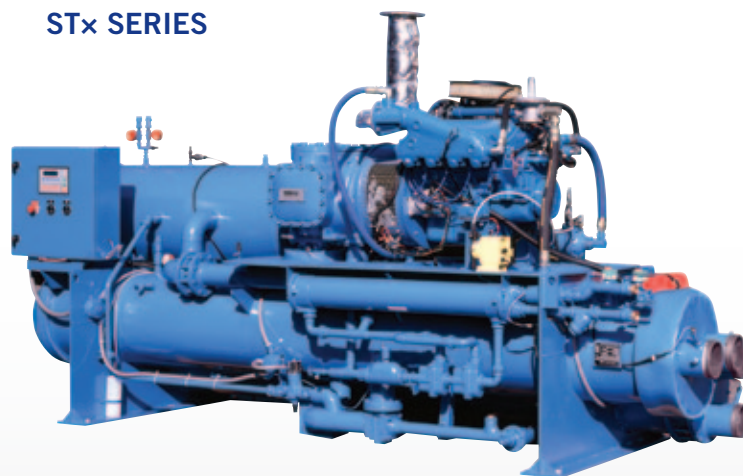
- Non-ozone depleting HFC-134a
- TecoDrive 7400TM Natural Gas Engine
- Single Screw Balanced Action Compressor
- High Efficiency Flooded Evaporator
- IPLV's Exceeding 2.5
- Footprint equivalent to electric chillers
- Variable engine speed operation for excellent part load performance and longer life
- Microprocessor-based Control System with precise PID Control for fully automatic operation, continuous system monitoring, digital display, fault diagnostics and tie-in to an energy management system
- Remote Monitoring and Control System (RMCS) that permits remote real-time monitoring, data acquisition, and system control by telephone



DTx SERIES



STx SERIES





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SPECIFICATIONS *

	ST× Series	DT× Series
ELECTRICAL REQUIREMENT		
Voltage Requirement	208-230 50/60 Hz	
Electrical Service	Single Phase with Neutral	
Amperage Rating	30	40
Parasitic Power Requirement [kW]	2.2	2.7

DIMENSIONAL DATA		
Length [mm]	4216	4343
Width [mm]	1320	2133
Height [mm]	2057	2311

WEIGHTS		
Rigging Weight [kg]	4740	11192
Operational Weight [kg]	5103	12780

DRIVELINE		
Engine	Teco Drive 7400	Teco Drive 7400 (x2)
Compressor	J&E Hall HS202 4GED	J&E Hall HS202 4GED (x2)

MODEL	ST× Series		DT× Series		
	CH-150x	CH-200x	CH-300x	CH-350x	CH-400x
Full Load Rating [kW]	525	700	1050	1230	1400
IPLV COP**	2.6	2.6	2.6	2.6	2.6
Full Load COP	1.7	1.6	1.7	1.7	1.6
COP with Engine Heat Recovery	2.1	1.9	2.0	2.0	1.9
Fuel Consumption [kWh @ 37.98 MJ/m ³]	302	447	631	740	893
Fuel Consumption [m ³]	28.6	42.3	59.9	70.2	84.7
Fuel Pressure [mbar]	17-70	32-70	17-70	32-70	32-70
Available Engine Heat [kW]	95	141	198	234	281
Maximum Supply Temperature [°C]	94	100	94	97	100

WATER SYSTEMS					
Chilled Water Flow [l/sec]	22.7	30.2	45.4	52.9	60.5
Chilled Water Pressure Drop @ Rated Flow [kPa]	27	48	54	29	38
Total Cooling Tower Flow [l/sec]	30.9	40.3	61.7	71.2	80.6
Flow To Condenser Only [l/sec]	28.4	37.8	56.7	66.2	75.6
Flow To Dump HX Only [l/sec]	2.5	2.5	5.0	5.0	5.0
Condenser Pressure Drop @ Rated Flow [kPa]	39	69	39	42	54
Cooling Tower Heat Rejection [kW]	708	1018	1575	1798	2035

ACOUSTIC LEVELS [dBa @ 1m]					
With Enclosure	85	89	88	89	92
Without Enclosure	92	96	95	96	99
Refrigerant	HFC-134a				

*All specifications are $\pm 5\%$ and are subject to change without notice. **COP ratings are based upon Fuel Higher Heating Value (HHV) @ 37.98 MJ/m³.

TYPICAL PART-LOAD PERFORMANCE

