

TWO-PHASE TURBINES

Reference List

September, 2010

Energent is the leading innovator and developer of two-phase turbines. Our turbines have over fifteen years field experience in many industries.

Installed applications include:

- Oil and gas separation
- Oil and gas power generation
- Geothermal wellhead power generation
- Waste heat recovery
- Flashing refrigerant power generation



Energent Corporation

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Model	Date	Application	Customer Location	Pressure psia	Flowrate lb/hr	Temp °F	Inlet Vapor	Power kW	Cooling tons
54RST	Jun, 1983	Geothermal Wellhead Power	Utah Power & Light Roosevelt Hot Springs, UT	420	500,000	450	6%	1,600	
54RST	Dec, 1985	Geothermal Wellhead Power	Phillips, Petroleum, Desert Peak, NV	97	622,500	324	5%	440	
36 RSB	Jun, 1985	Waste Heat Recovery	Mitsui Zosen Daido Steel, Japan	507	242,600	466	0%	530	
36RSB	Sep, 2000	Geothermal Wellhead Power	Comision Federal de Electricidad,Cerro Prieto, MX	612	290,000	488	32%	890	
36RSRT	Oct, 1984	Oil and Gas Separation and Power Generation	DOE El Segundo, CA	250	175,000	80	8%	80	
30RST	Aug, 1981	Geothermal Wellhead Power	DOE East Mesa, CA	88	18,360	319	4%	15	
30RST	Aug, 1981	Geothermal Wellhead Power	DOE Raft River, ID	63	17,640	273	22%	3	
30RST	Aug, 1981	Geothermal Wellhead Power	DOE Roosevelt Hot Springs, UT	138	14,760	352	0%	21	
26T	Apr, 1982	Waste Heat Recovery	DOE Santa Monica CA	561	13,400	479	5%	126	
25T	Jun, 1985	Oil and Gas Separation and Power Generation	Mobil Sholem Alechem Gas Plant, OK	608	42,120	100	0%	10	
24RST	Sep, 2000	Offshore Gas and Oil Wellhead Power and Separation	Shell Deepwater Ram-Powell Platform	1,250	171,500	200	16%	40	
18TPRS	Jun, 1999	Oil, Gas and Water Separation and Power Generation	DOE Kvaerner Placentia, CA	41	34,500	70	0%	14	
18RST	Nov, 1997	Crude Oil and Gas Separation and Power Generation	Kvarner North Sea Shuttle Tanker	101	131,300	100	0%	20	
12T	Aug, 1995	Geothermal Wellhead Power	DOE Coso Geothermal Field, CA	117	11,800	339	70%	43	
10VPT	Mar, 2009	Flashing Refrigerant Power Generation	Siemens Santa Ana, CA	550	8,300	250	0%	2-8	
10VPT	Jun, 2010	Flashing CO2 Power Generation	DOE Santa Ana, CA	170	8,280	-23	0%	1	
10 VPT	Aug, 2010	Flashing Liquid Nitrogen Power Generation	Energent Santa Ana, CA	180	54,000	-263	0%	14	
8TPRS	Jun, 2010	Oil, Gas and Water Separation and Power Generation	Kvaerner Placentia, CA	100	13,090	70	5%	1	
8IRIS	Apr, 1985	Gas, Water and NGL Separation	Chevron Laredo TX	1,100	18,800	150	94%	0	
6VPT	Apr, 2008	Flashing Liquid Nitrogen Power Generation	Energent Santa Ana, CA	126	3,150	-277	0%	1.6	
6VPT	Nov, 1995	Flashing Refrigerant Power Generation	Carrier 3 Parkway	123	102,000	90	0%	19	500
6VPT	Nov, 1995	Flashing Refrigerant Power Generation	Carrier 3 Parkway	123	102,000	90	0%	19	500
6VPT	Nov, 1995	Flashing Refrigerant Power Generation	Carrier 3 Parkway	123	102,000	90	0%	19	500
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Airline Kitchen	123	102,000	90	0%	19	500
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Airline Kitchen	123	102,000	90	0%	19	500
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Airline Kitchen	123	102,000	90	0%	19	500
6VPT	Dec, 1997	Flashing Refrigerant Power Generation	Carrier Allegiance Healthcare	123	102,000	90	0%	19	500
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier Allied Signal Bldg 302	123	119,544	90	0%	22	586
6VPT	Oct, 1997	Flashing Refrigerant Power Generation	Carrier Atlanticare Medical Center	123	102,000	90	0%	19	500
6VPT	Oct, 1997	Flashing Refrigerant Power Generation	Carrier Atlanticare Medical Center	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier C.X. Hotel	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier C.X. Hotel	123	102,000	90	0%	19	500

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6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier C.X. Hotel	123	102,000	90	0%	19	500
6VPT	Jul, 1995	Flashing Refrigerant Power Generation	Carrier A&R	123	66,300	90	0%	12	325
6VPT	Sep, 1995	Flashing Refrigerant Power Generation	Carrier A&R	123	66,300	90	0%	12	325
6VPT	Dec, 1996	Flashing Refrigerant Power Generation	Carrier World Headquarters	123	77,520	90	0%	14	380
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier Cathay Pacific (Office)	123	102,000	90	0%	19	500
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier Cathay Pacific (Office)	123	102,000	90	0%	19	500
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier Cathay Pacific (Office)	123	102,000	90	0%	19	500
6VPT	Jul, 1997	Flashing Refrigerant Power Generation	Carrier Cathay Pacific (Office)	123	102,000	90	0%	19	500
6VPT	Jul, 1997	Flashing Refrigerant Power Generation	Carrier Cathay Pacific (Office)	123	102,000	90	0%	19	500
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier Cordis	123	71,400	90	0%	13	350
6VPT	Jun, 1996	Flashing Refrigerant Power Generation	Carrier Crawford Long Hospital	123	107,100	90	0%	20	525
6VPT	Jul, 1995	Flashing Refrigerant Power Generation	Carrier Dow Corning	123	113,832	90	0%	21	558
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Egat	123	102,000	90	0%	19	500
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Emerson Hospital	123	81,600	90	0%	15	400
6VPT	Apr, 1997	Flashing Refrigerant Power Generation	Carrier Galey And Lord	123	102,000	90	0%	19	500
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier GTE	123	103,020	90	0%	19	505
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier GTE	123	103,020	90	0%	19	505
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier GTE	123	103,020	90	0%	19	505
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier GTE	123	103,020	90	0%	19	505
6VPT	Nov, 1997	Flashing Refrigerant Power Generation	Carrier Haeco	123	102,000	90	0%	19	500
6VPT	Nov, 1997	Flashing Refrigerant Power Generation	Carrier Haeco	123	102,000	90	0%	19	500
6VPT	Dec, 1997	Flashing Refrigerant Power Generation	Carrier Haeco	123	102,000	90	0%	19	500
6VPT	Jun, 1996	Flashing Refrigerant Power Generation	Carrier Harvard Comm. Health	123	67,320	90	0%	13	330
6VPT	Jun, 1996	Flashing Refrigerant Power Generation	Carrier Harvard Comm. Health	123	67,320	90	0%	13	330
6VPT	Jun, 1996	Flashing Refrigerant Power Generation	Carrier Harvard Comm. Health	123	67,320	90	0%	13	330
6VPT	Oct, 1995	Flashing Refrigerant Power Generation	Carrier Hi-Techhip	123	102,000	90	0%	19	500
6VPT	May, 1996	Flashing Refrigerant Power Generation	Carrier Laurel Regional Hospital	123	91,800	90	0%	17	450
6VPT	May, 1996	Flashing Refrigerant Power Generation	Carrier Laurel Regional Hospital	123	91,800	90	0%	17	450
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier LG	123	102,000	90	0%	19	500
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier Malden H.S.	123	102,000	90	0%	19	500
6VPT	Dec, 1996	Flashing Refrigerant Power Generation	Carrier Maui Memorial Hospital	123	81,600	90	0%	15	400
6VPT	May, 1997	Flashing Refrigerant Power Generation	Carrier McCue Center At UVA	123	102,000	90	0%	19	500

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6VPT	Jul, 1996	Flashing Refrigerant Power Generation	Carrier Monet	123	105,876	90	0%	20	519
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier Ocean Place	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier Ocean Place	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier Ocean Place	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier Ocean Place	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier Ocean Place	123	102,000	90	0%	19	500
6VPT	Jan, 1996	Flashing Refrigerant Power Generation	Carrier Peabody Hotel	123	91,800	90	0%	17	450
6VPT	Jan, 1996	Flashing Refrigerant Power Generation	Carrier Peabody Hotel	123	91,800	90	0%	17	450
6VPT	Apr, 1996	Flashing Refrigerant Power Generation	Carrier Seagate	123	102,000	90	0%	19	500
6VPT	Apr, 1996	Flashing Refrigerant Power Generation	Carrier Seagate	123	102,000	90	0%	19	500
6VPT	Dec, 1996	Flashing Refrigerant Power Generation	Carrier Shore Memorial Hospital	123	102,000	90	0%	19	500
6VPT	Jan, 1997	Flashing Refrigerant Power Generation	Carrier Shore Memorial Hospital	123	102,000	90	0%	19	500
6VPT	Dec, 1996	Flashing Refrigerant Power Generation	Carrier Shore Memorial Hospital	123	102,000	90	0%	19	500
6VPT	May, 1997	Flashing Refrigerant Power Generation	Carrier SVG	123	102,000	90	0%	19	500
6VPT	Aug, 1997	Flashing Refrigerant Power Generation	Carrier SVG III	123	102,000	90	0%	19	500
6VPT	Sep, 1997	Flashing Refrigerant Power Generation	Carrier SVG III	123	102,000	90	0%	19	500
6VPT	Nov, 1996	Flashing Refrigerant Power Generation	Carrier The Valspar Corporation	123	66,300	90	0%	12	325
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier Toray A-5	123	102,000	90	0%	19	500
6VPT	Jun, 1997	Flashing Refrigerant Power Generation	Carrier Toray A-5	123	102,000	90	0%	19	500
6VPT	Sep, 1996	Flashing Refrigerant Power Generation	Carrier Tucson Post Office	123	112,200	90	0%	21	550
6VPT	Aug, 1996	Flashing Refrigerant Power Generation	Carrier TV3	123	81,600	90	0%	15	400
6VPT	Aug, 1996	Flashing Refrigerant Power Generation	Carrier TV3	123	81,600	90	0%	15	400
6VPT	Aug, 1996	Flashing Refrigerant Power Generation	Carrier TV3	123	81,600	90	0%	15	400
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier U.A.W. Solidarity House	123	91,800	90	0%	17	450
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier University Of Dayton	123	102,816	90	0%	19	504
6VPT	May, 1997	Flashing Refrigerant Power Generation	Carrier Valspar #2	123	102,000	90	0%	19	500
6VPT	Sep, 1995	Flashing Refrigerant Power Generation	Carrier Van Melle	123	98,532	90	0%	18	483
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Wayne Westland Schools	123	71,400	90	0%	13	350
6VPT	Jul, 1996	Flashing Refrigerant Power Generation	Carrier Weather Channel	123	61,200	90	0%	11	300
6VPT	Jul, 1996	Flashing Refrigerant Power Generation	Carrier Weather Channel	123	61,200	90	0%	11	300
6VPT	Mar, 1996	Flashing Refrigerant Power Generation	Carrier Westhoff Hospital	123	107,100	90	0%	20	525