

## Performance Table Explain

- The performance tables give the model type, bore, r.p.m, discharge pressure, air capacity and required power of the blower.
- The air capacity in the tables is indicated in the standard suction state. The standard suction state herein mentioned is defined as the condition at 20 temperature, 1.0332kgf/cm<sup>2</sup> [101.3kPa] absolute pressure and 65%relative humidity.
- The reference air capacity(temperature 0 °C and 1.0332kgf/cm<sup>2</sup> [101.3kPa] absolute pressure is generally indicated in Nm<sup>3</sup>/min.
- However, it may be converted into the standard air capacity by the following equation if the suction pressure is equal.

$$Q_s = Q_N \times 1.0732$$

Where,

$Q_s$ : standard air capacity;

$Q_N$ : reference air capacity;

- The discharge air capacity can be converted into the standard air capacity by the following equation.

$$Q_s = Q_d \times \frac{1.0332 + P_d}{2 \times 1.0332} \times \frac{273 + t_s}{273 + t_d}$$

Where,

$Q_d$ : discharge air capacity, in(m<sup>3</sup>/min)

$P_d$ : discharge pressure, in(kgf/cm<sup>2</sup>)

$t_s$ : suction temperature, in(°C)

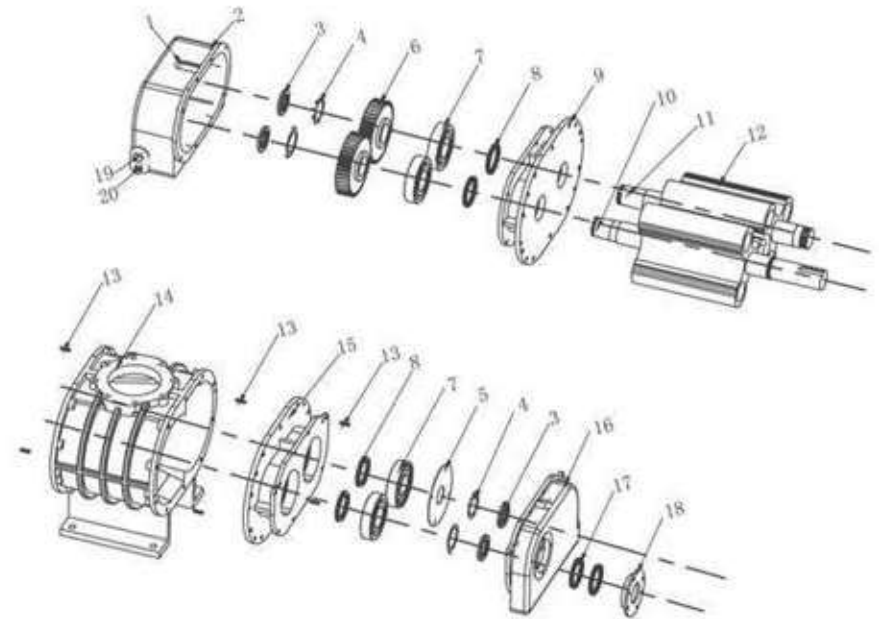
$t_d$ : discharge temperature, in(°C)

- According to the air capacity and discharge pressure as calculated above, the model number, bore, r.p.m and required power can be found in the performance table.

## Pressure Conversion Table

	Pa	Bar	Kgf/cm <sup>2</sup>	Atm	MmHg <sub>0</sub>	MmHg (Torr)
Pressure	1	1 x 10 <sup>-5</sup>	1.01972 x 10 <sup>-5</sup>	9.86923 x 10 <sup>-6</sup>	1.01972 x 10 <sup>-1</sup>	7.50062 x 10 <sup>-1</sup>
	1 x 10 <sup>5</sup>	1	1.01972	9.86923 x 10 <sup>-1</sup>	1.01972 x 10 <sup>4</sup>	7.50062 x 10 <sup>2</sup>
	9.80665 x 10 <sup>4</sup>	9.80665 x 10 <sup>-1</sup>	1	9.67841 x 10 <sup>-1</sup>	1 x 10 <sup>4</sup>	7.35559 x 10 <sup>2</sup>
	1.01325 x 10 <sup>5</sup>	1.01325	1.03323	1	1.03323 x 10 <sup>4</sup>	7.60000 x 10 <sup>2</sup>
	9.80665	9.80665 x 10 <sup>-5</sup>	1 x 10 <sup>-4</sup>	9.67841 x 10 <sup>-5</sup>	1	7.35559 x 10 <sup>-2</sup>
	1.33322 x 10 <sup>3</sup>	1.33322 x 10 <sup>-3</sup>	1.35951 x 10 <sup>-3</sup>	1.31579 x 10 <sup>-3</sup>	1.35951 x 10 <sup>1</sup>	1

## Roots Blower Structure



## Parts Material Table

No.	Name	Material	QTY	No.	Name	Material	QTY
1	Lubrication Plug	A3	2	11	Driven Shaft	45#	1
2	Gear Case	HT250	1	12	Rotor	QT400	2
3	Lock Nut	A3	4	13	Positioning Pin	45#	6
4	Washer	A3	4	14	Casing	HT250	1
5	Oil Splash	A3	2	15	Drive Side Wall	HT250	1
6	Gear	20CrMnTi	2	16	Drop Tank	HT250	1
7	Bearing	SUJ2	4	17	Oil Seal	Nitrile Rubber	2
8	V-ring	Nitrile Rubber	4	18	Oil Tank Cap	HT250	1
9	Wall Plate	HT250	1	19	Oil Gauge	Organic Glass	2
10	Drive Shaft	45#	1	20	Purge Plug	A3	2









# RSR Series Vacuum Pump Performance Datasheet

RSR-125 Vacuum Pump

RSR-150 Vacuum Pump

RSR-175A Vacuum Pump

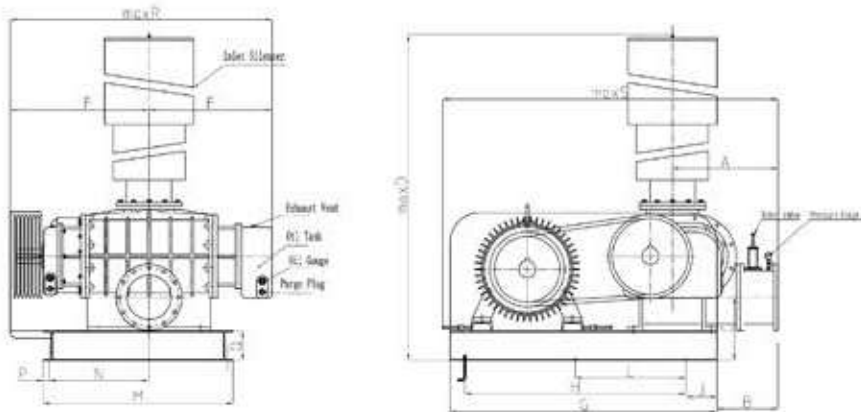
RSR-200H Vacuum Pump

Rotary Speed r/min	Pressure Rise kpa	Air Capacity m <sup>3</sup> /min	Shaft Power kW	Motor		Unit Maximum Weight Kg	Rotary Speed r/min	Pressure Rise kpa	Air Capacity m <sup>3</sup> /min	Shaft Power kW	Motor		Unit Maximum Weight Kg																																																																																																																																																																																																																																																																																																																																																																																	
				Type	Power kW						Type	Power kW																																																																																																																																																																																																																																																																																																																																																																																		
960 °	-13.3	5.24	2.27	Y132M2-6	5.5	351	960 °	-13.3	15.60	4.46	Y150M-6	7.5	739																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	5.97	3.17	Y132M2-6	5.5			-26.6	5.70	4.07	Y132M2-6	5.5		-33.3	5.42	4.49	Y132M2-6	5.5	-39.9	5.14	5.86	Y160M-6	7.5	1200	-13.3	7.77	3.26	Y132S-4	5.5	1200	-46.6	13.35	15.90	Y200L-1-6	15.5	740	-19.9	7.51	4.31	Y132S-4	5.5	-26.6	7.25	5.37	Y132M-4	7.5	-33.3	6.98	6.42	Y132M-4	7.5	-39.9	6.96	7.47	Y160M-4	11	1310	-13.3	8.57	3.71	Y132S-4	5.5	1410	-73.3	11.55	23.45	Y225M-6	30	758	-19.9	8.36	4.87	Y132S-4	5.5	-26.6	8.13	6.02	Y132M-4	7.5	-33.3	7.85	7.18	Y160M-4	11	-39.9	7.81	8.33	Y160M-4	11	1470 °	-13.3	9.70	4.37	Y132S-4	5.5	1670	-79.9	11.10	25.56	Y225M-6	30	835	-19.9	9.48	5.66	Y132M-4	7.5	-26.6	9.25	6.95	Y132M-4	7.5	-33.3	9.02	8.23	Y160M-4	11	-39.9	8.78	9.50	Y160M-4	11	1550	-13.3	10.37	4.62	Y132S-4	5.5	1900	-13.3	19.20	7.57	Y160M-4	11	960	-19.9	10.10	5.98	Y132M-4	7.5	-26.6	9.82	7.34	Y160M-4	11	-33.3	9.56	8.70	Y160M-4	11	-39.9	9.33	10.10	Y160M-4	11	1650	-13.3	11.00	5.18	Y132S-4	5.5	1900	-19.9	18.73	9.83	Y160M-4	11	960	-19.9	10.70	6.64	Y132M-4	7.5	-26.6	10.50	8.11	Y160M-4	11	-33.3	10.30	9.58	Y160M-4	11	-39.9	10.10	11.10	Y160L-4	15	1770	-13.3	11.80	5.70	Y132M-4	7.5	1900	-26.6	18.25	12.30	Y160L-4	15	960	-19.9	11.50	7.23	Y160M-4	11	-26.6	11.30	8.75	Y160M-4	11	-33.3	11.10	10.30	Y160M-4	11	-39.9	10.90	11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5	1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4	11	-26.6	12.00	9.46	Y160M-4	11	-33.3	11.80	11.10	Y160L-4	15	-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5	1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11	-26.6	12.80	10.27	Y160M-4	11	-33.3	12.61	11.97	Y160L-4	15	-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5	1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9					-26.6					-33.3					-39.9																																																																		
	-26.6	5.70	4.07	Y132M2-6	5.5			-33.3	5.42	4.49	Y132M2-6	5.5		-39.9	5.14	5.86	Y160M-6	7.5	1200	-13.3	7.77	3.26	Y132S-4		5.5	1200	-46.6	13.35	15.90		Y200L-1-6	15.5	740	-19.9	7.51		4.31	Y132S-4	5.5	-26.6	7.25	5.37	Y132M-4	7.5	-33.3	6.98	6.42	Y132M-4	7.5	-39.9	6.96	7.47	Y160M-4	11	1310	-13.3		8.57	3.71	Y132S-4	5.5	1410		-73.3	11.55	23.45	Y225M-6	30		758	-19.9	8.36	4.87	Y132S-4	5.5	-26.6	8.13	6.02	Y132M-4	7.5	-33.3	7.85	7.18	Y160M-4	11	-39.9	7.81	8.33	Y160M-4		11	1470 °	-13.3	9.70	4.37		Y132S-4	5.5	1670	-79.9	11.10		25.56	Y225M-6	30	835	-19.9	9.48	5.66	Y132M-4	7.5	-26.6	9.25	6.95	Y132M-4	7.5	-33.3	9.02	8.23	Y160M-4	11	-39.9		8.78	9.50	Y160M-4	11	1550		-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4	11	960	-19.9	10.10	5.98	Y132M-4	7.5	-26.6	9.82	7.34	Y160M-4	11	-33.3	9.56	8.70		Y160M-4	11	-39.9	9.33	10.10		Y160M-4	11	1650	-13.3	11.00		5.18	Y132S-4	5.5	1900	-19.9	18.73	9.83	Y160M-4	11	960	-19.9	10.70	6.64	Y132M-4	7.5	-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15		1770	-13.3	11.80	5.70	Y132M-4	7.5	1900	-26.6	18.25	12.30	Y160L-4	15	960	-19.9	11.50	7.23	Y160M-4	11	-26.6	11.30		8.75	Y160M-4	11	-33.3	11.10		10.30	Y160M-4	11	-39.9	10.90		11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5	1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4		11	-26.6	12.00	9.46	Y160M-4		11	-33.3	11.80	11.10	Y160L-4		15	-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5	1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9		13.17	8.55	Y160M-4	11	-26.6		12.80	10.27	Y160M-4	11	-33.3		12.61	11.97	Y160L-4	15	-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5	1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9					-26.6					-33.3					-39.9																																												
	-33.3	5.42	4.49	Y132M2-6	5.5			-39.9	5.14	5.86	Y160M-6	7.5		1200	-13.3	7.77	3.26	Y132S-4		5.5	1200	-46.6	13.35		15.90		Y200L-1-6	15.5	740		-19.9	7.51		4.31	Y132S-4		5.5	-26.6	7.25	5.37	Y132M-4	7.5	-33.3	6.98	6.42	Y132M-4	7.5	-39.9	6.96	7.47	Y160M-4	11	1310	-13.3		8.57		3.71	Y132S-4	5.5	1410			-73.3	11.55	23.45	Y225M-6	30			758	-19.9	8.36	4.87	Y132S-4	5.5	-26.6	8.13	6.02	Y132M-4	7.5	-33.3	7.85	7.18	Y160M-4	11	-39.9	7.81	8.33		Y160M-4		11	1470 °	-13.3		9.70	4.37		Y132S-4	5.5		1670	-79.9	11.10		25.56	Y225M-6	30	835	-19.9	9.48	5.66	Y132M-4	7.5	-26.6	9.25	6.95	Y132M-4	7.5	-33.3	9.02		8.23	Y160M-4	11	-39.9			8.78	9.50	Y160M-4	11	1550			-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4	11	960	-19.9	10.10	5.98	Y132M-4	7.5	-26.6		9.82	7.34	Y160M-4	11	-33.3		9.56	8.70		Y160M-4	11		-39.9	9.33	10.10		Y160M-4	11	1650	-13.3	11.00		5.18	Y132S-4	5.5	1900	-19.9	18.73	9.83	Y160M-4	11	960		-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15		1770	-13.3	11.80	5.70	Y132M-4	7.5	1900		-26.6	18.25	12.30	Y160L-4	15		960	-19.9	11.50	7.23	Y160M-4		11	-26.6	11.30		8.75	Y160M-4	11	-33.3	11.10		10.30	Y160M-4	11	-39.9	10.90		11.80	Y160L-4	15	1880		-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4		11	960	-19.9	12.30	7.86	Y160M-4		11	-26.6	12.00	9.46	Y160M-4		11	-33.3	11.80	11.10	Y160L-4		15		-39.9	11.60	12.70	Y160L-4	15		2000	-13.3	13.37	6.84	Y132M-4		7.5	1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9		13.17	8.55	Y160M-4	11	-26.6		12.80	10.27	Y160M-4	11	-33.3		12.61	11.97	Y160L-4	15	-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5	1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9					-26.6					-33.3					-39.9																						
	-39.9	5.14	5.86	Y160M-6	7.5			1200	-13.3	7.77	3.26	Y132S-4			5.5	1200	-46.6	13.35		15.90		Y200L-1-6	15.5		740		-19.9	7.51			4.31	Y132S-4		5.5	-26.6		7.25	5.37	Y132M-4	7.5	-33.3	6.98	6.42	Y132M-4	7.5	-39.9	6.96	7.47	Y160M-4	11	1310	-13.3		8.57		3.71		Y132S-4	5.5	1410				-73.3	11.55	23.45	Y225M-6	30				758	-19.9	8.36	4.87	Y132S-4	5.5	-26.6	8.13	6.02	Y132M-4	7.5	-33.3	7.85	7.18	Y160M-4	11	-39.9	7.81		8.33		Y160M-4		11		1470 °	-13.3		9.70	4.37			Y132S-4	5.5		1670	-79.9	11.10		25.56	Y225M-6	30	835	-19.9	9.48	5.66	Y132M-4	7.5	-26.6	9.25	6.95		Y132M-4	7.5	-33.3	9.02			8.23	Y160M-4	11	-39.9				8.78	9.50	Y160M-4	11	1550			-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4	11		960	-19.9	10.10	5.98	Y132M-4		7.5	-26.6		9.82	7.34		Y160M-4	11	-33.3		9.56	8.70		Y160M-4	11		-39.9	9.33	10.10		Y160M-4	11	1650	-13.3	11.00			5.18	Y132S-4	5.5	1900	-19.9		18.73	9.83	Y160M-4	11	960			-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11			-39.9	10.10	11.10	Y160L-4	15			1770	-13.3	11.80	5.70		Y132M-4	7.5	1900		-26.6	18.25	12.30	Y160L-4	15		960	-19.9	11.50	7.23	Y160M-4		11	-26.6	11.30			8.75	Y160M-4	11	-33.3	11.10			10.30	Y160M-4	11	-39.9		10.90		11.80	Y160L-4	15	1880		-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4		11		960	-19.9	12.30	7.86	Y160M-4			11	-26.6	12.00	9.46		Y160M-4		11	-33.3	11.80	11.10	Y160L-4		15		-39.9	11.60	12.70	Y160L-4	15		2000	-13.3	13.37	6.84	Y132M-4		7.5	1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9		13.17	8.55	Y160M-4	11	-26.6		12.80	10.27	Y160M-4	11	-33.3		12.61	11.97	Y160L-4	15	-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5	1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9					-26.6					-33.3					-39.9
1200	-13.3	7.77	3.26	Y132S-4	5.5	1200	-46.6		13.35	15.90	Y200L-1-6	15.5	740																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	7.51	4.31	Y132S-4	5.5		-26.6		7.25	5.37	Y132M-4	7.5			-33.3		6.98	6.42		Y132M-4		7.5	-39.9	6.96			7.47	Y160M-4		11	1310	-13.3		8.57	3.71	Y132S-4	5.5	1410	-73.3	11.55	23.45	Y225M-6	30	758	-19.9	8.36	4.87	Y132S-4	5.5	-26.6		8.13		6.02		Y132M-4	7.5	-33.3	7.85				7.18	Y160M-4	11	-39.9	7.81	8.33	Y160M-4				11	1470 °	-13.3	9.70	4.37	Y132S-4	5.5	1670	-79.9	11.10	25.56	Y225M-6	30	835	-19.9	9.48	5.66	Y132M-4	7.5		-26.6		9.25	6.95		Y132M-4		7.5	-33.3	9.02		8.23	Y160M-4			11	-39.9		8.78	9.50	Y160M-4		11	1550	-13.3	10.37	4.62	Y132S-4	5.5	1900	-13.3	19.20	7.57	Y160M-4	11		960	-19.9	10.10	5.98	Y132M-4		7.5		-26.6	9.82	7.34	Y160M-4				11	-33.3	9.56	8.70	Y160M-4			11	-39.9	9.33	10.10	Y160M-4	11		1650	-13.3	11.00	5.18	Y132S-4	5.5	1900		-19.9	18.73	9.83	Y160M-4	11	960		-19.9	10.70		6.64	Y132M-4		7.5	-26.6	10.50		8.11	Y160M-4		11	-33.3		10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770		-13.3		11.80	5.70	Y132M-4	7.5	1900		-26.6	18.25	12.30	Y160L-4	15			960	-19.9	11.50	7.23	Y160M-4		11	-26.6	11.30	8.75	Y160M-4	11	-33.3			11.10	10.30	Y160M-4	11	-39.9	10.90			11.80	Y160L-4	15	1880	-13.3			12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77		14.70	Y160M-4	11	960	-19.9	12.30	7.86		Y160M-4	11	-26.6	12.00	9.46	Y160M-4		11	-33.3	11.80			11.10	Y160L-4	15	-39.9	11.60			12.70	Y160L-4	15	2000		-13.3	13.37		6.84	Y132M-4	7.5	1900	-39.9		23.00	35.82	Y225M-4	45	960	-19.9		13.17	8.55	Y160M-4	11	-26.6		12.80		10.27	Y160M-4	11	-33.3	12.61			11.97	Y160L-4	15	-39.9		12.21		13.69	Y160L-4	15	2000	-13.3		14.72		14.72	Y160M-4	15.5	1900	-79.9		22.93	54.20	Y260S-4	75	960		-19.9					-26.6						-33.3						-39.9																				
	-26.6	7.25	5.37	Y132M-4	7.5		-33.3		6.98	6.42	Y132M-4	7.5			-39.9		6.96	7.47	Y160M-4	11		1310	-13.3	8.57		3.71	Y132S-4	5.5		1410		-73.3	11.55	23.45	Y225M-6	30	758		-19.9	8.36	4.87	Y132S-4	5.5		-26.6	8.13	6.02	Y132M-4	7.5	-33.3		7.85		7.18	Y160M-4	11	-39.9	7.81	8.33			Y160M-4	11	1470 °	-13.3	9.70	4.37	Y132S-4	5.5	1670			-79.9		11.10	25.56	Y225M-6	30	835		-19.9	9.48	5.66	Y132M-4	7.5		-26.6	9.25	6.95	Y132M-4	7.5	-33.3	9.02		8.23	Y160M-4		11	-39.9	8.78	9.50	Y160M-4		11	1550	-13.3		10.37	4.62		Y132S-4	5.5	1900		-13.3		19.20	7.57	Y160M-4	11	960		-19.9	10.10	5.98	Y132M-4	7.5	-26.6		9.82	7.34	Y160M-4	11		-33.3	9.56	8.70	Y160M-4	11	-39.9		9.33		10.10	Y160M-4	11	1650	-13.3			11.00	5.18	Y132S-4	5.5	1900	-19.9			18.73	9.83	Y160M-4	11	960		-19.9	10.70	6.64	Y132M-4	7.5	-26.6		10.50	8.11	Y160M-4		11	-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10		11.10	Y160L-4		15	1770	-13.3	11.80		5.70	Y132M-4	7.5	1900	-26.6			18.25	12.30	Y160L-4	15	960	-19.9		11.50	7.23	Y160M-4	11	-26.6	11.30	8.75			Y160M-4	11	-33.3	11.10		10.30	Y160M-4	11	-39.9	10.90	11.80	Y160L-4			15	1880	-13.3	12.50	6.25	Y132M-4		7.5	1900	-33.3	17.77		14.70	Y160M-4		11	960	-19.9	12.30	7.86		Y160M-4	11		-26.6	12.00	9.46		Y160M-4	11	-33.3		11.80	11.10	Y160L-4	15	-39.9	11.60		12.70	Y160L-4	15		2000	-13.3	13.37	6.84	Y132M-4	7.5	1900		-39.9	23.00	35.82		Y225M-4	45	960		-19.9	13.17	8.55		Y160M-4		11	-26.6	12.80	10.27		Y160M-4		11	-33.3	12.61	11.97	Y160L-4		15	-39.9	12.21	13.69	Y160L-4	15	2000	-13.3		14.72	14.72	Y160M-4	15.5	1900	-79.9		22.93	54.20	Y260S-4		75		960		-19.9							-26.6							-33.3					-39.9																														
	-33.3	6.98	6.42	Y132M-4	7.5		-39.9		6.96	7.47	Y160M-4	11		1310	-13.3		8.57	3.71	Y132S-4	5.5	1410		-73.3	11.55		23.45	Y225M-6	30	758			-19.9	8.36	4.87	Y132S-4	5.5			-26.6	8.13	6.02	Y132M-4	7.5		-33.3	7.85	7.18	Y160M-4	11	-39.9		7.81	8.33	Y160M-4	11	1470 °	-13.3	9.70	4.37		Y132S-4	5.5	1670		-79.9	11.10	25.56	Y225M-6	30		835		-19.9		9.48	5.66	Y132M-4	7.5			-26.6	9.25	6.95	Y132M-4	7.5		-33.3	9.02	8.23	Y160M-4	11	-39.9	8.78	9.50	Y160M-4	11		1550	-13.3	10.37	4.62	Y132S-4	5.5	1900		-13.3		19.20	7.57	Y160M-4	11	960			-19.9		10.10	5.98	Y132M-4	7.5			-26.6	9.82	7.34	Y160M-4	11	-33.3		9.56	8.70	Y160M-4	11	-39.9	9.33	10.10	Y160M-4	11	1650	-13.3		11.00	5.18	Y132S-4	5.5	1900		-19.9	18.73		9.83	Y160M-4	11	960		-19.9			10.70	6.64	Y132M-4	7.5			-26.6	10.50	8.11	Y160M-4	11	-33.3		10.30	9.58	Y160M-4	11	-39.9	10.10	11.10	Y160L-4	15	1770	-13.3	11.80	5.70		Y132M-4	7.5	1900	-26.6		18.25	12.30		Y160L-4	15	960		-19.9			11.50	7.23	Y160M-4	11		-26.6		11.30	8.75	Y160M-4	11	-33.3	11.10	10.30	Y160M-4		11	-39.9	10.90	11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5	1900		-33.3		17.77	14.70	Y160M-4	11		960		-19.9	12.30		7.86	Y160M-4		11		-26.6	12.00	9.46		Y160M-4	11	-33.3	11.80	11.10	Y160L-4		15	-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5	1900	-39.9			23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55		Y160M-4	11			-26.6	12.80	10.27		Y160M-4	11	-33.3	12.61	11.97	Y160L-4		15	-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5	1900	-79.9		22.93		54.20	Y260S-4	75	960		-19.9									-26.6						-33.3						-39.9																																						
	-39.9	6.96	7.47	Y160M-4	11		1310	-13.3	8.57	3.71	Y132S-4	5.5			1410	-73.3	11.55	23.45	Y225M-6	30			758	-19.9	8.36	4.87	Y132S-4	5.5				-26.6	8.13	6.02	Y132M-4	7.5			-33.3	7.85	7.18	Y160M-4	11		-39.9	7.81	8.33	Y160M-4	11	1470 °	-13.3	9.70	4.37	Y132S-4	5.5		1670	-79.9	11.10	25.56	Y225M-6	30			835	-19.9	9.48	5.66	Y132M-4			7.5	-26.6		9.25	6.95	Y132M-4	7.5			-33.3	9.02	8.23	Y160M-4	11		-39.9	8.78	9.50	Y160M-4	11	1550	-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4			11	960	-19.9	10.10	5.98	Y132M-4			7.5	-26.6		9.82	7.34	Y160M-4	11			-33.3	9.56	8.70	Y160M-4	11	-39.9		9.33	10.10	Y160M-4	11	1650	-13.3	11.00	5.18	Y132S-4		5.5	1900	-19.9	18.73	9.83	Y160M-4			11	960	-19.9	10.70	6.64	Y132M-4			7.5	-26.6		10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11	-39.9		10.10	11.10	Y160L-4	15	1770	-13.3	11.80	5.70	Y132M-4		7.5	1900	-26.6	18.25	12.30	Y160L-4		15		960	-19.9	11.50	7.23	Y160M-4			11		-26.6	11.30	8.75	Y160M-4	11		-33.3		11.10	10.30	Y160M-4	11	-39.9	10.90	11.80	Y160L-4		15	1880	-13.3	12.50	6.25	Y132M-4		7.5	1900	-33.3	17.77	14.70		Y160M-4	11		960	-19.9	12.30	7.86	Y160M-4			11	-26.6		12.00	9.46	Y160M-4	11		-33.3	11.80	11.10		Y160L-4	15	-39.9	11.60	12.70	Y160L-4		15	2000	-13.3	13.37	6.84	Y132M-4		7.5	1900	-39.9	23.00	35.82		Y225M-4	45		960	-19.9	13.17	8.55			Y160M-4	11	-26.6	12.80		10.27	Y160M-4		11	-33.3	12.61	11.97		Y160L-4	15	-39.9	12.21	13.69	Y160L-4		15	2000	-13.3	14.72	14.72	Y160M-4		15.5	1900	-79.9	22.93	54.20		Y260S-4		75	960	-19.9							-26.6							-33.3						-39.9																																												
1310	-13.3	8.57	3.71	Y132S-4	5.5	1410		-73.3	11.55	23.45	Y225M-6	30	758																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	8.36	4.87	Y132S-4	5.5			-26.6	8.13	6.02	Y132M-4	7.5				-33.3	7.85	7.18	Y160M-4	11				-39.9	7.81	8.33	Y160M-4	11			1470 °	-13.3	9.70	4.37	Y132S-4	5.5		1670	-79.9	11.10	25.56	Y225M-6	30	835	-19.9	9.48	5.66	Y132M-4	7.5		-26.6	9.25	6.95	Y132M-4	7.5			-33.3	9.02	8.23	Y160M-4	11				-39.9	8.78	9.50	Y160M-4			11	1550	-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4	11	960	-19.9	10.10	5.98	Y132M-4	7.5		-26.6	9.82	7.34	Y160M-4	11			-33.3	9.56	8.70	Y160M-4			11		-39.9	9.33	10.10	Y160M-4			11	1650	-13.3	11.00	5.18	Y132S-4	5.5		1900	-19.9	18.73	9.83	Y160M-4	11	960	-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4		11		-33.3	10.30	9.58	Y160M-4			11		-39.9	10.10	11.10	Y160L-4			15	1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15	960	-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4		11		-33.3	11.10	10.30	Y160M-4		11			-39.9	10.90	11.80	Y160L-4			15	1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4		11		-33.3	11.80	11.10		Y160L-4	15			-39.9	11.60	12.70	Y160L-4			15	2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4		11		-33.3	12.61	11.97		Y160L-4	15			-39.9	12.21	13.69			Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4		15.5	1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																
	-26.6	8.13	6.02	Y132M-4	7.5			-33.3	7.85	7.18	Y160M-4	11				-39.9	7.81	8.33	Y160M-4	11		1470 °		-13.3	9.70	4.37	Y132S-4	5.5		1670		-79.9	11.10	25.56	Y225M-6	30	835		-19.9	9.48	5.66	Y132M-4	7.5		-26.6	9.25	6.95	Y132M-4	7.5		-33.3	9.02	8.23	Y160M-4	11			-39.9	8.78	9.50	Y160M-4	11		1550		-13.3	10.37	4.62	Y132S-4	5.5		1900		-13.3	19.20	7.57	Y160M-4	11	960		-19.9	10.10	5.98	Y132M-4	7.5		-26.6	9.82	7.34	Y160M-4	11		-33.3	9.56	8.70	Y160M-4	11			-39.9	9.33	10.10	Y160M-4		11	1650		-13.3	11.00	5.18	Y132S-4		5.5	1900		-19.9	18.73	9.83	Y160M-4	11	960		-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4		11		-39.9	10.10	11.10	Y160L-4		15	1770		-13.3	11.80	5.70	Y132M-4		7.5	1900		-26.6	18.25	12.30	Y160L-4	15	960		-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4		11		-39.9	10.90	11.80	Y160L-4		15	1880		-13.3	12.50	6.25	Y132M-4		7.5	1900		-33.3	17.77	14.70	Y160M-4	11	960		-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4		15		-39.9	11.60	12.70		Y160L-4	15	2000		-13.3	13.37	6.84	Y132M-4		7.5	1900		-39.9	23.00	35.82	Y225M-4	45	960		-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4		15		-39.9	12.21	13.69		Y160L-4	15	2000		-13.3	14.72	14.72		Y160M-4	15.5	1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																								
	-33.3	7.85	7.18	Y160M-4	11			-39.9	7.81	8.33	Y160M-4	11		1470 °		-13.3	9.70	4.37	Y132S-4	5.5	1670			-79.9	11.10	25.56	Y225M-6	30	835			-19.9	9.48	5.66	Y132M-4	7.5			-26.6	9.25	6.95	Y132M-4	7.5		-33.3	9.02	8.23	Y160M-4	11		-39.9	8.78	9.50	Y160M-4	11	1550		-13.3	10.37	4.62	Y132S-4	5.5	1900			-13.3	19.20	7.57	Y160M-4	11	960			-19.9	10.10	5.98	Y132M-4	7.5			-26.6	9.82	7.34	Y160M-4	11		-33.3	9.56	8.70	Y160M-4	11		-39.9	9.33	10.10	Y160M-4	11	1650		-13.3	11.00	5.18	Y132S-4	5.5	1900			-19.9	18.73	9.83	Y160M-4	11	960			-19.9	10.70	6.64	Y132M-4	7.5			-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770		-13.3	11.80	5.70	Y132M-4	7.5	1900			-26.6	18.25	12.30	Y160L-4	15	960			-19.9	11.50	7.23	Y160M-4	11			-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880		-13.3	12.50	6.25	Y132M-4	7.5	1900			-33.3	17.77	14.70	Y160M-4	11	960			-19.9	12.30	7.86	Y160M-4	11			-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000		-13.3	13.37	6.84	Y132M-4	7.5	1900			-39.9	23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																															
	-39.9	7.81	8.33	Y160M-4	11		1470 °	-13.3	9.70	4.37	Y132S-4	5.5			1670	-79.9	11.10	25.56	Y225M-6	30			835	-19.9	9.48	5.66	Y132M-4	7.5				-26.6	9.25	6.95	Y132M-4	7.5			-33.3	9.02	8.23	Y160M-4	11		-39.9	8.78	9.50	Y160M-4	11	1550	-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4	11			960	-19.9	10.10	5.98	Y132M-4	7.5				-26.6	9.82	7.34	Y160M-4	11			-33.3	9.56	8.70	Y160M-4	11		-39.9	9.33	10.10	Y160M-4	11	1650	-13.3	11.00	5.18	Y132S-4	5.5		1900	-19.9	18.73	9.83	Y160M-4	11			960	-19.9	10.70	6.64	Y132M-4	7.5				-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15			960	-19.9	11.50	7.23	Y160M-4	11				-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11			960	-19.9	12.30	7.86	Y160M-4	11				-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45			960	-19.9	13.17	8.55	Y160M-4	11				-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																					
1470 °	-13.3	9.70	4.37	Y132S-4	5.5	1670		-79.9	11.10	25.56	Y225M-6	30	835																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	9.48	5.66	Y132M-4	7.5			-26.6	9.25	6.95	Y132M-4	7.5				-33.3	9.02	8.23	Y160M-4	11				-39.9	8.78	9.50	Y160M-4	11			1550	-13.3	10.37	4.62	Y132S-4	5.5		1900	-13.3	19.20	7.57	Y160M-4	11	960	-19.9	10.10	5.98	Y132M-4	7.5		-26.6	9.82	7.34	Y160M-4	11			-33.3	9.56	8.70	Y160M-4	11				-39.9	9.33	10.10	Y160M-4	11			1650	-13.3	11.00	5.18	Y132S-4	5.5		1900	-19.9	18.73	9.83	Y160M-4	11	960	-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11				-39.9	10.10	11.10	Y160L-4	15			1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15	960	-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11				-39.9	10.90	11.80	Y160L-4	15			1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15				-39.9	11.60	12.70	Y160L-4	15			2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15			2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																																																										
	-26.6	9.25	6.95	Y132M-4	7.5			-33.3	9.02	8.23	Y160M-4	11				-39.9	8.78	9.50	Y160M-4	11		1550		-13.3	10.37	4.62	Y132S-4	5.5		1900		-13.3	19.20	7.57	Y160M-4	11	960		-19.9	10.10	5.98	Y132M-4	7.5		-26.6	9.82	7.34	Y160M-4	11		-33.3	9.56	8.70	Y160M-4	11			-39.9	9.33	10.10	Y160M-4	11		1650		-13.3	11.00	5.18	Y132S-4	5.5		1900		-19.9	18.73	9.83	Y160M-4	11	960		-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4	11			-39.9	10.10	11.10	Y160L-4	15		1770		-13.3	11.80	5.70	Y132M-4	7.5		1900		-26.6	18.25	12.30	Y160L-4	15	960		-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11			-39.9	10.90	11.80	Y160L-4	15		1880		-13.3	12.50	6.25	Y132M-4	7.5		1900		-33.3	17.77	14.70	Y160M-4	11	960		-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15			-39.9	11.60	12.70	Y160L-4	15		2000		-13.3	13.37	6.84	Y132M-4	7.5		1900		-39.9	23.00	35.82	Y225M-4	45	960		-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15			-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5		1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																																																																		
	-33.3	9.02	8.23	Y160M-4	11			-39.9	8.78	9.50	Y160M-4	11		1550		-13.3	10.37	4.62	Y132S-4	5.5	1900			-13.3	19.20	7.57	Y160M-4	11	960			-19.9	10.10	5.98	Y132M-4	7.5			-26.6	9.82	7.34	Y160M-4	11		-33.3	9.56	8.70	Y160M-4	11		-39.9	9.33	10.10	Y160M-4	11	1650		-13.3	11.00	5.18	Y132S-4	5.5	1900			-19.9	18.73	9.83	Y160M-4	11	960			-19.9	10.70	6.64	Y132M-4	7.5			-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770		-13.3	11.80	5.70	Y132M-4	7.5	1900			-26.6	18.25	12.30	Y160L-4	15	960			-19.9	11.50	7.23	Y160M-4	11			-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880		-13.3	12.50	6.25	Y132M-4	7.5	1900			-33.3	17.77	14.70	Y160M-4	11	960			-19.9	12.30	7.86	Y160M-4	11			-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000		-13.3	13.37	6.84	Y132M-4	7.5	1900			-39.9	23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																																																																									
	-39.9	8.78	9.50	Y160M-4	11		1550	-13.3	10.37	4.62	Y132S-4	5.5			1900	-13.3	19.20	7.57	Y160M-4	11			960	-19.9	10.10	5.98	Y132M-4	7.5				-26.6	9.82	7.34	Y160M-4	11			-33.3	9.56	8.70	Y160M-4	11		-39.9	9.33	10.10	Y160M-4	11	1650	-13.3	11.00	5.18	Y132S-4	5.5		1900	-19.9	18.73	9.83	Y160M-4	11			960	-19.9	10.70	6.64	Y132M-4	7.5				-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15			960	-19.9	11.50	7.23	Y160M-4	11				-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11			960	-19.9	12.30	7.86	Y160M-4	11				-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45			960	-19.9	13.17	8.55	Y160M-4	11				-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																																																															
1550	-13.3	10.37	4.62	Y132S-4	5.5	1900		-13.3	19.20	7.57	Y160M-4	11	960																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	10.10	5.98	Y132M-4	7.5			-26.6	9.82	7.34	Y160M-4	11				-33.3	9.56	8.70	Y160M-4	11				-39.9	9.33	10.10	Y160M-4	11			1650	-13.3	11.00	5.18	Y132S-4	5.5		1900	-19.9	18.73	9.83	Y160M-4	11	960	-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11				-39.9	10.10	11.10	Y160L-4	15			1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15	960	-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11				-39.9	10.90	11.80	Y160L-4	15			1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15				-39.9	11.60	12.70	Y160L-4	15			2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15			2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																																																																																																				
	-26.6	9.82	7.34	Y160M-4	11			-33.3	9.56	8.70	Y160M-4	11				-39.9	9.33	10.10	Y160M-4	11		1650		-13.3	11.00	5.18	Y132S-4	5.5		1900		-19.9	18.73	9.83	Y160M-4	11	960		-19.9	10.70	6.64	Y132M-4	7.5		-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4	11			-39.9	10.10	11.10	Y160L-4	15		1770		-13.3	11.80	5.70	Y132M-4	7.5		1900		-26.6	18.25	12.30	Y160L-4	15	960		-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11			-39.9	10.90	11.80	Y160L-4	15		1880		-13.3	12.50	6.25	Y132M-4	7.5		1900		-33.3	17.77	14.70	Y160M-4	11	960		-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15			-39.9	11.60	12.70	Y160L-4	15		2000		-13.3	13.37	6.84	Y132M-4	7.5		1900		-39.9	23.00	35.82	Y225M-4	45	960		-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15			-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5		1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																																																																																																												
	-33.3	9.56	8.70	Y160M-4	11			-39.9	9.33	10.10	Y160M-4	11		1650		-13.3	11.00	5.18	Y132S-4	5.5	1900			-19.9	18.73	9.83	Y160M-4	11	960			-19.9	10.70	6.64	Y132M-4	7.5			-26.6	10.50	8.11	Y160M-4	11		-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770		-13.3	11.80	5.70	Y132M-4	7.5	1900			-26.6	18.25	12.30	Y160L-4	15	960			-19.9	11.50	7.23	Y160M-4	11			-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880		-13.3	12.50	6.25	Y132M-4	7.5	1900			-33.3	17.77	14.70	Y160M-4	11	960			-19.9	12.30	7.86	Y160M-4	11			-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000		-13.3	13.37	6.84	Y132M-4	7.5	1900			-39.9	23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																																																																																																																			
	-39.9	9.33	10.10	Y160M-4	11		1650	-13.3	11.00	5.18	Y132S-4	5.5			1900	-19.9	18.73	9.83	Y160M-4	11			960	-19.9	10.70	6.64	Y132M-4	7.5				-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11		-39.9	10.10	11.10	Y160L-4	15	1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15			960	-19.9	11.50	7.23	Y160M-4	11				-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11			960	-19.9	12.30	7.86	Y160M-4	11				-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45			960	-19.9	13.17	8.55	Y160M-4	11				-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																																																																																																									
1650	-13.3	11.00	5.18	Y132S-4	5.5	1900		-19.9	18.73	9.83	Y160M-4	11	960																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	10.70	6.64	Y132M-4	7.5			-26.6	10.50	8.11	Y160M-4	11				-33.3	10.30	9.58	Y160M-4	11				-39.9	10.10	11.10	Y160L-4	15			1770	-13.3	11.80	5.70	Y132M-4	7.5		1900	-26.6	18.25	12.30	Y160L-4	15	960	-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11				-39.9	10.90	11.80	Y160L-4	15			1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15				-39.9	11.60	12.70	Y160L-4	15			2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15			2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																																																																																																																																														
	-26.6	10.50	8.11	Y160M-4	11			-33.3	10.30	9.58	Y160M-4	11				-39.9	10.10	11.10	Y160L-4	15		1770		-13.3	11.80	5.70	Y132M-4	7.5		1900		-26.6	18.25	12.30	Y160L-4	15	960		-19.9	11.50	7.23	Y160M-4	11		-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11			-39.9	10.90	11.80	Y160L-4	15		1880		-13.3	12.50	6.25	Y132M-4	7.5		1900		-33.3	17.77	14.70	Y160M-4	11	960		-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15			-39.9	11.60	12.70	Y160L-4	15		2000		-13.3	13.37	6.84	Y132M-4	7.5		1900		-39.9	23.00	35.82	Y225M-4	45	960		-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15			-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5		1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																																																																																																																																																						
	-33.3	10.30	9.58	Y160M-4	11			-39.9	10.10	11.10	Y160L-4	15		1770		-13.3	11.80	5.70	Y132M-4	7.5	1900			-26.6	18.25	12.30	Y160L-4	15	960			-19.9	11.50	7.23	Y160M-4	11			-26.6	11.30	8.75	Y160M-4	11		-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880		-13.3	12.50	6.25	Y132M-4	7.5	1900			-33.3	17.77	14.70	Y160M-4	11	960			-19.9	12.30	7.86	Y160M-4	11			-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000		-13.3	13.37	6.84	Y132M-4	7.5	1900			-39.9	23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																																																																																																																																																													
	-39.9	10.10	11.10	Y160L-4	15		1770	-13.3	11.80	5.70	Y132M-4	7.5			1900	-26.6	18.25	12.30	Y160L-4	15			960	-19.9	11.50	7.23	Y160M-4	11				-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11		-39.9	10.90	11.80	Y160L-4	15	1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11			960	-19.9	12.30	7.86	Y160M-4	11				-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45			960	-19.9	13.17	8.55	Y160M-4	11				-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																																																																																																																																																			
1770	-13.3	11.80	5.70	Y132M-4	7.5	1900		-26.6	18.25	12.30	Y160L-4	15	960																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	11.50	7.23	Y160M-4	11			-26.6	11.30	8.75	Y160M-4	11				-33.3	11.10	10.30	Y160M-4	11				-39.9	10.90	11.80	Y160L-4	15			1880	-13.3	12.50	6.25	Y132M-4	7.5		1900	-33.3	17.77	14.70	Y160M-4	11	960	-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15				-39.9	11.60	12.70	Y160L-4	15			2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15			2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																																																																																																																																																																																								
	-26.6	11.30	8.75	Y160M-4	11			-33.3	11.10	10.30	Y160M-4	11				-39.9	10.90	11.80	Y160L-4	15		1880		-13.3	12.50	6.25	Y132M-4	7.5		1900		-33.3	17.77	14.70	Y160M-4	11	960		-19.9	12.30	7.86	Y160M-4	11		-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15			-39.9	11.60	12.70	Y160L-4	15		2000		-13.3	13.37	6.84	Y132M-4	7.5		1900		-39.9	23.00	35.82	Y225M-4	45	960		-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15			-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5		1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																																																																																																																																																																																																
	-33.3	11.10	10.30	Y160M-4	11			-39.9	10.90	11.80	Y160L-4	15		1880		-13.3	12.50	6.25	Y132M-4	7.5	1900			-33.3	17.77	14.70	Y160M-4	11	960			-19.9	12.30	7.86	Y160M-4	11			-26.6	12.00	9.46	Y160M-4	11		-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000		-13.3	13.37	6.84	Y132M-4	7.5	1900			-39.9	23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																																																																																																																																																																																																							
	-39.9	10.90	11.80	Y160L-4	15		1880	-13.3	12.50	6.25	Y132M-4	7.5			1900	-33.3	17.77	14.70	Y160M-4	11			960	-19.9	12.30	7.86	Y160M-4	11				-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15		-39.9	11.60	12.70	Y160L-4	15	2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45			960	-19.9	13.17	8.55	Y160M-4	11				-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																																																																																																																																																																																													
1880	-13.3	12.50	6.25	Y132M-4	7.5	1900		-33.3	17.77	14.70	Y160M-4	11	960																																																																																																																																																																																																																																																																																																																																																																																	
	-19.9	12.30	7.86	Y160M-4	11			-26.6	12.00	9.46	Y160M-4	11				-33.3	11.80	11.10	Y160L-4	15				-39.9	11.60	12.70	Y160L-4	15			2000	-13.3	13.37	6.84	Y132M-4	7.5		1900	-39.9	23.00	35.82	Y225M-4	45	960	-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15			2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																																																																																																																																																																																																																																		
	-26.6	12.00	9.46	Y160M-4	11			-33.3	11.80	11.10	Y160L-4	15				-39.9	11.60	12.70	Y160L-4	15		2000		-13.3	13.37	6.84	Y132M-4	7.5		1900		-39.9	23.00	35.82	Y225M-4	45	960		-19.9	13.17	8.55	Y160M-4	11		-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15			-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5		1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																																																																																																																																																																																																																																										
	-33.3	11.80	11.10	Y160L-4	15			-39.9	11.60	12.70	Y160L-4	15		2000		-13.3	13.37	6.84	Y132M-4	7.5	1900			-39.9	23.00	35.82	Y225M-4	45	960			-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11		-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																																																																																																																																																																																																																																																	
	-39.9	11.60	12.70	Y160L-4	15		2000	-13.3	13.37	6.84	Y132M-4	7.5			1900	-39.9	23.00	35.82	Y225M-4	45			960	-19.9	13.17	8.55	Y160M-4	11				-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15		-39.9	12.21	13.69	Y160L-4	15	2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																																																																																																																																																																																																																																							
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	-19.9	13.17	8.55	Y160M-4	11			-26.6	12.80	10.27	Y160M-4	11				-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15			2000	-13.3	14.72	14.72	Y160M-4	15.5		1900	-79.9	22.93	54.20	Y260S-4	75	960	-19.9						-26.6							-33.3								-39.9																																																																																																																																																																																																																																																																																																																												
	-26.6	12.80	10.27	Y160M-4	11			-33.3	12.61	11.97	Y160L-4	15				-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5		1900		-79.9	22.93	54.20	Y260S-4	75	960		-19.9						-26.6						-33.3							-39.9																																																																																																																																																																																																																																																																																																																																				
	-33.3	12.61	11.97	Y160L-4	15			-39.9	12.21	13.69	Y160L-4	15		2000		-13.3	14.72	14.72	Y160M-4	15.5	1900			-79.9	22.93	54.20	Y260S-4	75	960			-19.9							-26.6						-33.3						-39.9																																																																																																																																																																																																																																																																																																																																											
	-39.9	12.21	13.69	Y160L-4	15		2000	-13.3	14.72	14.72	Y160M-4	15.5			1900	-79.9	22.93	54.20	Y260S-4	75			960	-19.9								-26.6							-33.3						-39.9																																																																																																																																																																																																																																																																																																																																																	
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Rotary Speed r/min	Pressure Rise kpa	Air Capacity m <sup>3</sup> /min	Shaft Power kW	Motor		Unit Maximum Weight Kg	Rotary Speed r/min	Pressure Rise kpa	Air Capacity m <sup>3</sup> /min	Shaft Power kW	Motor		Unit Maximum Weight Kg																																																																																																																																																																																																																																																																																																																																																																																	
				Type	Power kW						Type	Power kW																																																																																																																																																																																																																																																																																																																																																																																		
970 °	-8.8	17.20	5.20	Y160M-6	7.5	1096	970 °	-8.8	31.00	8.50	Y160L-6	11	1096																																																																																																																																																																																																																																																																																																																																																																																	
	-14.7	16.10	6.95	Y160L-6	11			-19.6	15.60	8.70	Y160L-6	11		-24.5	14.90	10.50	Y160L-6	11	-29.4	14.20	12.20	Y180S-6	15	1150	-34.3	13.50	14.00	Y200L-1-6	15.5	1010	-44.1	25.60	39.50	Y250M-6	37	1560	-39.2	12.90	15.70	Y200L-1-6	15.5	-44.1	12.10	17.50	Y200L-2-4	22	-49.0	11.40	19.20	Y200L-2-4	22	-53.9	10.70	21.00	Y200L-2-4	22	1420 °	-8.8	21.20	6.00	Y132M-4	7.5	1145	-49.0	24.80	32.50	Y250M-6	45	1560	-14.7	20.00	8.10	Y160M-4	11	-19.6	19.50	10.20	Y160L-4	15	-24.5	18.80	12.30	Y160L-4	15	-29.4	18.10	14.40	Y180M-4	22	1480 °	-34.3	17.40	16.90	Y180L-4	22	1080	-44.1	16.00	20.60	Y200L-4	30	1770	-39.2	16.80	18.50	Y180L-4	22	-44.1	16.00	20.60	Y200L-4	30	-49.0	15.00	22.70	Y200L-4	30	-53.9	14.00	24.80	Y200L-4	30	1750	-8.8	27.50	7.50	Y160M-4	11	1080	-49.0	18.00	22.70	Y200L-4	30	1770	-14.7	26.40	10.10	Y160L-4	15	-19.6	25.90	12.70	Y160L-4	15	-24.5	25.20	15.40	Y180M-4	22	-29.4	24.50	18.00	Y180L-4	22	1900	-34.3	23.80	20.60	Y200L-4	30	1080	-44.1	18.00	22.70	Y200L-4	30	1770	-39.2	23.20	23.20	Y200L-4	30	-44.1	22.40	25.90	Y200L-4	30	-49.0	21.40	28.60	Y225S-4	37	-53.9	20.40	31.30	Y225S-4	37	2000	-8.8	33.90	9.00	Y160M-4	11	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	32.80	12.20	Y160L-4	15	-19.6	32.30	15.30	Y180M-4	22	-24.5	31.60	18.50	Y180L-4	22	-29.4	30.90	21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30	1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4	37	-44.1	28.80	31.20	Y225S-4	37	-49.0	27.80	34.30	Y225M-4	45	-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22	-19.6	37.70	17.50	Y180L-4	22	-24.5	37.00	21.10	Y200L-4	30	-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37	-44.1	34.20	35.50	Y225M-4	45	-49.0	33.20	39.10	Y225M-4	45	-53.9	32.20	42.70	Y225M-4	45																																																														
	-19.6	15.60	8.70	Y160L-6	11			-24.5	14.90	10.50	Y160L-6	11		-29.4	14.20	12.20	Y180S-6	15	1150	-34.3	13.50	14.00	Y200L-1-6		15.5	1010	-44.1	25.60	39.50		Y250M-6	37	1560	-39.2	12.90		15.70	Y200L-1-6	15.5	-44.1	12.10	17.50	Y200L-2-4	22	-49.0	11.40	19.20	Y200L-2-4	22	-53.9	10.70	21.00	Y200L-2-4	22	1420 °	-8.8		21.20	6.00	Y132M-4	7.5	1145		-49.0	24.80	32.50	Y250M-6	45		1560	-14.7	20.00	8.10	Y160M-4	11	-19.6	19.50	10.20	Y160L-4	15	-24.5	18.80	12.30	Y160L-4	15	-29.4	18.10	14.40	Y180M-4		22	1480 °	-34.3	17.40	16.90		Y180L-4	22	1080	-44.1	16.00		20.60	Y200L-4	30	1770	-39.2	16.80	18.50	Y180L-4	22	-44.1	16.00	20.60	Y200L-4	30	-49.0	15.00	22.70	Y200L-4	30	-53.9		14.00	24.80	Y200L-4	30	1750		-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4	30	1770	-14.7	26.40	10.10	Y160L-4	15	-19.6	25.90	12.70	Y160L-4	15	-24.5	25.20	15.40		Y180M-4	22	-29.4	24.50	18.00		Y180L-4	22	1900	-34.3	23.80		20.60	Y200L-4	30	1080	-44.1	18.00	22.70	Y200L-4	30	1770	-39.2	23.20	23.20	Y200L-4	30	-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37		2000	-8.8	33.90	9.00	Y160M-4	11	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	32.80	12.20	Y160L-4	15	-19.6	32.30		15.30	Y180M-4	22	-24.5	31.60		18.50	Y180L-4	22	-29.4	30.90		21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30	1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4		37	-44.1	28.80	31.20	Y225S-4		37	-49.0	27.80	34.30	Y225M-4		45	-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7		38.20	13.90	Y180M-4	22	-19.6		37.70	17.50	Y180L-4	22	-24.5		37.00	21.10	Y200L-4	30	-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37	-44.1	34.20	35.50	Y225M-4	45	-49.0	33.20	39.10	Y225M-4	45	-53.9	32.20	42.70	Y225M-4	45																																								
	-24.5	14.90	10.50	Y160L-6	11			-29.4	14.20	12.20	Y180S-6	15		1150	-34.3	13.50	14.00	Y200L-1-6		15.5	1010	-44.1	25.60		39.50		Y250M-6	37	1560		-39.2	12.90		15.70	Y200L-1-6		15.5	-44.1	12.10	17.50	Y200L-2-4	22	-49.0	11.40	19.20	Y200L-2-4	22	-53.9	10.70	21.00	Y200L-2-4	22	1420 °	-8.8		21.20		6.00	Y132M-4	7.5	1145			-49.0	24.80	32.50	Y250M-6	45			1560	-14.7	20.00	8.10	Y160M-4	11	-19.6	19.50	10.20	Y160L-4	15	-24.5	18.80	12.30	Y160L-4	15	-29.4	18.10	14.40		Y180M-4		22	1480 °	-34.3		17.40	16.90		Y180L-4	22		1080	-44.1	16.00		20.60	Y200L-4	30	1770	-39.2	16.80	18.50	Y180L-4	22	-44.1	16.00	20.60	Y200L-4	30	-49.0	15.00		22.70	Y200L-4	30	-53.9			14.00	24.80	Y200L-4	30	1750			-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4	30	1770	-14.7	26.40	10.10	Y160L-4	15	-19.6		25.90	12.70	Y160L-4	15	-24.5		25.20	15.40		Y180M-4	22		-29.4	24.50	18.00		Y180L-4	22	1900	-34.3	23.80		20.60	Y200L-4	30	1080	-44.1	18.00	22.70	Y200L-4	30	1770		-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37		2000	-8.8	33.90	9.00	Y160M-4	11	1080		-49.0	21.40	28.60	Y225S-4	37		1770	-14.7	32.80	12.20	Y160L-4		15	-19.6	32.30		15.30	Y180M-4	22	-24.5	31.60		18.50	Y180L-4	22	-29.4	30.90		21.60	Y200L-4	30	1900		-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4		30	1770	-39.2	29.60	28.00	Y225S-4		37	-44.1	28.80	31.20	Y225S-4		37	-49.0	27.80	34.30	Y225M-4		45		-53.9	26.80	37.40	Y225M-4	45		1900	-8.8	39.30	10.20	Y160L-4		15	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7		38.20	13.90	Y180M-4	22	-19.6		37.70	17.50	Y180L-4	22	-24.5		37.00	21.10	Y200L-4	30	-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37	-44.1	34.20	35.50	Y225M-4	45	-49.0	33.20	39.10	Y225M-4	45	-53.9	32.20	42.70	Y225M-4	45																		
	-29.4	14.20	12.20	Y180S-6	15			1150	-34.3	13.50	14.00	Y200L-1-6			15.5	1010	-44.1	25.60		39.50		Y250M-6	37		1560		-39.2	12.90			15.70	Y200L-1-6		15.5	-44.1		12.10	17.50	Y200L-2-4	22	-49.0	11.40	19.20	Y200L-2-4	22	-53.9	10.70	21.00	Y200L-2-4	22	1420 °	-8.8		21.20		6.00		Y132M-4	7.5	1145				-49.0	24.80	32.50	Y250M-6	45				1560	-14.7	20.00	8.10	Y160M-4	11	-19.6	19.50	10.20	Y160L-4	15	-24.5	18.80	12.30	Y160L-4	15	-29.4	18.10		14.40		Y180M-4		22		1480 °	-34.3		17.40	16.90			Y180L-4	22		1080	-44.1	16.00		20.60	Y200L-4	30	1770	-39.2	16.80	18.50	Y180L-4	22	-44.1	16.00	20.60		Y200L-4	30	-49.0	15.00			22.70	Y200L-4	30	-53.9				14.00	24.80	Y200L-4	30	1750			-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4	30		1770	-14.7	26.40	10.10	Y160L-4		15	-19.6		25.90	12.70		Y160L-4	15	-24.5		25.20	15.40		Y180M-4	22		-29.4	24.50	18.00		Y180L-4	22	1900	-34.3	23.80			20.60	Y200L-4	30	1080	-44.1		18.00	22.70	Y200L-4	30	1770			-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37			-53.9	20.40	31.30	Y225S-4	37			2000	-8.8	33.90	9.00		Y160M-4	11	1080		-49.0	21.40	28.60	Y225S-4	37		1770	-14.7	32.80	12.20	Y160L-4		15	-19.6	32.30			15.30	Y180M-4	22	-24.5	31.60			18.50	Y180L-4	22	-29.4		30.90		21.60	Y200L-4	30	1900		-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4		30		1770	-39.2	29.60	28.00	Y225S-4			37	-44.1	28.80	31.20		Y225S-4		37	-49.0	27.80	34.30	Y225M-4		45		-53.9	26.80	37.40	Y225M-4	45		1900	-8.8	39.30	10.20	Y160L-4		15	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7		38.20	13.90	Y180M-4	22	-19.6		37.70	17.50	Y180L-4	22	-24.5		37.00	21.10	Y200L-4	30	-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37	-44.1	34.20	35.50	Y225M-4	45	-49.0	33.20	39.10	Y225M-4	45	-53.9
1150	-34.3	13.50	14.00	Y200L-1-6	15.5	1010	-44.1		25.60	39.50	Y250M-6	37	1560																																																																																																																																																																																																																																																																																																																																																																																	
	-39.2	12.90	15.70	Y200L-1-6	15.5		-44.1		12.10	17.50	Y200L-2-4	22			-49.0		11.40	19.20		Y200L-2-4		22	-53.9	10.70			21.00	Y200L-2-4		22	1420 °	-8.8		21.20	6.00	Y132M-4	7.5	1145	-49.0	24.80	32.50	Y250M-6	45	1560	-14.7	20.00	8.10	Y160M-4	11	-19.6		19.50		10.20		Y160L-4	15	-24.5	18.80				12.30	Y160L-4	15	-29.4	18.10	14.40	Y180M-4				22	1480 °	-34.3	17.40	16.90	Y180L-4	22	1080	-44.1	16.00	20.60	Y200L-4	30	1770	-39.2	16.80	18.50	Y180L-4	22		-44.1		16.00	20.60		Y200L-4		30	-49.0	15.00		22.70	Y200L-4			30	-53.9		14.00	24.80	Y200L-4		30	1750	-8.8	27.50	7.50	Y160M-4	11	1080	-49.0	18.00	22.70	Y200L-4	30		1770	-14.7	26.40	10.10	Y160L-4		15		-19.6	25.90	12.70	Y160L-4				15	-24.5	25.20	15.40	Y180M-4			22	-29.4	24.50	18.00	Y180L-4	22		1900	-34.3	23.80	20.60	Y200L-4	30	1080		-44.1	18.00	22.70	Y200L-4	30	1770		-39.2	23.20		23.20	Y200L-4		30	-44.1	22.40		25.90	Y200L-4		30	-49.0		21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000		-8.8		33.90	9.00	Y160M-4	11	1080		-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	32.80	12.20	Y160L-4		15	-19.6	32.30	15.30	Y180M-4	22	-24.5			31.60	18.50	Y180L-4	22	-29.4	30.90			21.60	Y200L-4	30	1900	-34.3			30.20	24.80	Y200L-4	30		1080	-44.1	22.40		25.90	Y200L-4	30	1770	-39.2	29.60	28.00		Y225S-4	37	-44.1	28.80	31.20	Y225S-4		37	-49.0	27.80			34.30	Y225M-4	45	-53.9	26.80			37.40	Y225M-4	45	1900		-8.8	39.30		10.20	Y160L-4	15	1080	-49.0		21.40	28.60	Y225S-4	37	1770	-14.7		38.20	13.90	Y180M-4	22	-19.6		37.70		17.50	Y180L-4	22	-24.5	37.00			21.10	Y200L-4	30	-29.4		36.30		24.70	Y200L-4	30	1900	-34.3		35.60		28.30	Y225S-4	37	1080	-49.0		21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37	-44.1	34.20	35.50	Y225M-4		45	-49.0	33.20	39.10	Y225M-4		45	-53.9	32.20	42.70	Y225M-4		45															
	-44.1	12.10	17.50	Y200L-2-4	22		-49.0		11.40	19.20	Y200L-2-4	22			-53.9		10.70	21.00	Y200L-2-4	22		1420 °	-8.8	21.20		6.00	Y132M-4	7.5		1145		-49.0	24.80	32.50	Y250M-6	45	1560		-14.7	20.00	8.10	Y160M-4	11		-19.6	19.50	10.20	Y160L-4	15	-24.5		18.80		12.30	Y160L-4	15	-29.4	18.10	14.40			Y180M-4	22	1480 °	-34.3	17.40	16.90	Y180L-4	22	1080			-44.1		16.00	20.60	Y200L-4	30	1770		-39.2	16.80	18.50	Y180L-4	22		-44.1	16.00	20.60	Y200L-4	30	-49.0	15.00		22.70	Y200L-4		30	-53.9	14.00	24.80	Y200L-4		30	1750	-8.8		27.50	7.50		Y160M-4	11	1080		-49.0		18.00	22.70	Y200L-4	30	1770		-14.7	26.40	10.10	Y160L-4	15	-19.6		25.90	12.70	Y160L-4	15		-24.5	25.20	15.40	Y180M-4	22	-29.4		24.50		18.00	Y180L-4	22	1900	-34.3			23.80	20.60	Y200L-4	30	1080	-44.1			18.00	22.70	Y200L-4	30	1770		-39.2	23.20	23.20	Y200L-4	30	-44.1		22.40	25.90	Y200L-4		30	-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40		31.30	Y225S-4		37	2000	-8.8	33.90		9.00	Y160M-4	11	1080	-49.0			21.40	28.60	Y225S-4	37	1770	-14.7		32.80	12.20	Y160L-4	15	-19.6	32.30	15.30			Y180M-4	22	-24.5	31.60		18.50	Y180L-4	22	-29.4	30.90	21.60	Y200L-4			30	1900	-34.3	30.20	24.80	Y200L-4		30	1080	-44.1	22.40		25.90	Y200L-4		30	1770	-39.2	29.60	28.00		Y225S-4	37		-44.1	28.80	31.20		Y225S-4	37	-49.0		27.80	34.30	Y225M-4	45	-53.9	26.80		37.40	Y225M-4	45		1900	-8.8	39.30	10.20	Y160L-4	15	1080		-49.0	21.40	28.60		Y225S-4	37	1770		-14.7	38.20	13.90		Y180M-4		22	-19.6	37.70	17.50		Y180L-4		22	-24.5	37.00	21.10	Y200L-4		30	-29.4	36.30	24.70	Y200L-4	30	1900	-34.3		35.60	28.30	Y225S-4	37	1080	-49.0		21.40	28.60	Y225S-4		37		1770		-39.2	35.00	31.90		Y225S-4		37	-44.1	34.20	35.50			Y225M-4	45	-49.0	33.20	39.10	Y225M-4	45	-53.9	32.20		42.70	Y225M-4	45																									
	-49.0	11.40	19.20	Y200L-2-4	22		-53.9		10.70	21.00	Y200L-2-4	22		1420 °	-8.8		21.20	6.00	Y132M-4	7.5	1145		-49.0	24.80		32.50	Y250M-6	45	1560			-14.7	20.00	8.10	Y160M-4	11			-19.6	19.50	10.20	Y160L-4	15		-24.5	18.80	12.30	Y160L-4	15	-29.4		18.10	14.40	Y180M-4	22	1480 °	-34.3	17.40	16.90		Y180L-4	22	1080		-44.1	16.00	20.60	Y200L-4	30		1770		-39.2		16.80	18.50	Y180L-4	22			-44.1	16.00	20.60	Y200L-4	30		-49.0	15.00	22.70	Y200L-4	30	-53.9	14.00	24.80	Y200L-4	30		1750	-8.8	27.50	7.50	Y160M-4	11	1080		-49.0		18.00	22.70	Y200L-4	30	1770			-14.7		26.40	10.10	Y160L-4	15			-19.6	25.90	12.70	Y160L-4	15	-24.5		25.20	15.40	Y180M-4	22	-29.4	24.50	18.00	Y180L-4	22	1900	-34.3		23.80	20.60	Y200L-4	30	1080		-44.1	18.00		22.70	Y200L-4	30	1770		-39.2			23.20	23.20	Y200L-4	30			-44.1	22.40	25.90	Y200L-4	30	-49.0		21.40	28.60	Y225S-4	37	-53.9	20.40	31.30	Y225S-4	37	2000	-8.8	33.90	9.00		Y160M-4	11	1080	-49.0		21.40	28.60		Y225S-4	37	1770		-14.7			32.80	12.20	Y160L-4	15		-19.6		32.30	15.30	Y180M-4	22	-24.5	31.60	18.50	Y180L-4		22	-29.4	30.90	21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30	1080		-44.1		22.40	25.90	Y200L-4	30		1770		-39.2	29.60		28.00	Y225S-4		37		-44.1	28.80	31.20		Y225S-4	37	-49.0	27.80	34.30	Y225M-4		45	-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15	1080	-49.0			21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90		Y180M-4	22			-19.6	37.70	17.50		Y180L-4	22	-24.5	37.00	21.10	Y200L-4		30	-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37	1080	-49.0		21.40		28.60	Y225S-4	37	1770		-39.2		35.00	31.90	Y225S-4		37			-44.1	34.20	35.50	Y225M-4		45	-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																		
	-53.9	10.70	21.00	Y200L-2-4	22		1420 °	-8.8	21.20	6.00	Y132M-4	7.5			1145	-49.0	24.80	32.50	Y250M-6	45			1560	-14.7	20.00	8.10	Y160M-4	11				-19.6	19.50	10.20	Y160L-4	15			-24.5	18.80	12.30	Y160L-4	15		-29.4	18.10	14.40	Y180M-4	22	1480 °	-34.3	17.40	16.90	Y180L-4	22		1080	-44.1	16.00	20.60	Y200L-4	30			1770	-39.2	16.80	18.50	Y180L-4			22	-44.1		16.00	20.60	Y200L-4	30			-49.0	15.00	22.70	Y200L-4	30		-53.9	14.00	24.80	Y200L-4	30	1750	-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4			30	1770	-14.7	26.40	10.10	Y160L-4			15	-19.6		25.90	12.70	Y160L-4	15			-24.5	25.20	15.40	Y180M-4	22	-29.4		24.50	18.00	Y180L-4	22	1900	-34.3	23.80	20.60	Y200L-4		30	1080	-44.1	18.00	22.70	Y200L-4			30	1770	-39.2	23.20	23.20	Y200L-4			30	-44.1		22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37	-53.9		20.40	31.30	Y225S-4	37	2000	-8.8	33.90	9.00	Y160M-4		11	1080	-49.0	21.40	28.60	Y225S-4		37		1770	-14.7	32.80	12.20	Y160L-4			15		-19.6	32.30	15.30	Y180M-4	22		-24.5		31.60	18.50	Y180L-4	22	-29.4	30.90	21.60	Y200L-4		30	1900	-34.3	30.20	24.80	Y200L-4		30	1080	-44.1	22.40	25.90		Y200L-4	30		1770	-39.2	29.60	28.00	Y225S-4			37	-44.1		28.80	31.20	Y225S-4	37		-49.0	27.80	34.30		Y225M-4	45	-53.9	26.80	37.40	Y225M-4		45	1900	-8.8	39.30	10.20	Y160L-4		15	1080	-49.0	21.40	28.60		Y225S-4	37		1770	-14.7	38.20	13.90			Y180M-4	22	-19.6	37.70		17.50	Y180L-4		22	-24.5	37.00	21.10		Y200L-4	30	-29.4	36.30	24.70	Y200L-4		30	1900	-34.3	35.60	28.30	Y225S-4		37	1080	-49.0	21.40	28.60		Y225S-4		37	1770	-39.2	35.00	31.90			Y225S-4	37	-44.1	34.20	35.50		Y225M-4	45		-49.0	33.20	39.10	Y225M-4		45	-53.9	32.20	42.70	Y225M-4	45																																								
1420 °	-8.8	21.20	6.00	Y132M-4	7.5	1145		-49.0	24.80	32.50	Y250M-6	45	1560																																																																																																																																																																																																																																																																																																																																																																																	
	-14.7	20.00	8.10	Y160M-4	11			-19.6	19.50	10.20	Y160L-4	15				-24.5	18.80	12.30	Y160L-4	15				-29.4	18.10	14.40	Y180M-4	22			1480 °	-34.3	17.40	16.90	Y180L-4	22		1080	-44.1	16.00	20.60	Y200L-4	30	1770	-39.2	16.80	18.50	Y180L-4	22		-44.1	16.00	20.60	Y200L-4	30			-49.0	15.00	22.70	Y200L-4	30				-53.9	14.00	24.80	Y200L-4			30	1750	-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4	30	1770	-14.7	26.40	10.10	Y160L-4	15		-19.6	25.90	12.70	Y160L-4	15			-24.5	25.20	15.40	Y180M-4			22		-29.4	24.50	18.00	Y180L-4			22	1900	-34.3	23.80	20.60	Y200L-4	30		1080	-44.1	18.00	22.70	Y200L-4	30	1770	-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4		30		-49.0	21.40	28.60	Y225S-4			37		-53.9	20.40	31.30	Y225S-4			37	2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4		22		-24.5	31.60	18.50	Y180L-4		22			-29.4	30.90	21.60	Y200L-4			30	1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4		37		-49.0	27.80	34.30		Y225M-4	45			-53.9	26.80	37.40	Y225M-4			45	1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4		22		-24.5	37.00	21.10		Y200L-4	30			-29.4	36.30	24.70			Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4		37	1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4		45		-49.0	33.20	39.10		Y225M-4		45		-53.9	32.20	42.70			Y225M-4	45																																																										
	-19.6	19.50	10.20	Y160L-4	15			-24.5	18.80	12.30	Y160L-4	15				-29.4	18.10	14.40	Y180M-4	22		1480 °		-34.3	17.40	16.90	Y180L-4	22		1080		-44.1	16.00	20.60	Y200L-4	30	1770		-39.2	16.80	18.50	Y180L-4	22		-44.1	16.00	20.60	Y200L-4	30		-49.0	15.00	22.70	Y200L-4	30			-53.9	14.00	24.80	Y200L-4	30		1750		-8.8	27.50	7.50	Y160M-4	11		1080		-49.0	18.00	22.70	Y200L-4	30	1770		-14.7	26.40	10.10	Y160L-4	15		-19.6	25.90	12.70	Y160L-4	15		-24.5	25.20	15.40	Y180M-4	22			-29.4	24.50	18.00	Y180L-4		22	1900		-34.3	23.80	20.60	Y200L-4		30	1080		-44.1	18.00	22.70	Y200L-4	30	1770		-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4		37		-53.9	20.40	31.30	Y225S-4		37	2000		-8.8	33.90	9.00	Y160M-4		11	1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4		22		-29.4	30.90	21.60	Y200L-4		30	1900		-34.3	30.20	24.80	Y200L-4		30	1080		-44.1	22.40	25.90	Y200L-4	30	1770		-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4		45		-53.9	26.80	37.40		Y225M-4	45	1900		-8.8	39.30	10.20	Y160L-4		15	1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4		30		-29.4	36.30	24.70		Y200L-4	30	1900		-34.3	35.60	28.30		Y225S-4	37	1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4		45		-53.9	32.20	42.70		Y225M-4	45																																																																			
	-24.5	18.80	12.30	Y160L-4	15			-29.4	18.10	14.40	Y180M-4	22		1480 °		-34.3	17.40	16.90	Y180L-4	22	1080			-44.1	16.00	20.60	Y200L-4	30	1770			-39.2	16.80	18.50	Y180L-4	22			-44.1	16.00	20.60	Y200L-4	30		-49.0	15.00	22.70	Y200L-4	30		-53.9	14.00	24.80	Y200L-4	30	1750		-8.8	27.50	7.50	Y160M-4	11	1080			-49.0	18.00	22.70	Y200L-4	30	1770			-14.7	26.40	10.10	Y160L-4	15			-19.6	25.90	12.70	Y160L-4	15		-24.5	25.20	15.40	Y180M-4	22		-29.4	24.50	18.00	Y180L-4	22	1900		-34.3	23.80	20.60	Y200L-4	30	1080			-44.1	18.00	22.70	Y200L-4	30	1770			-39.2	23.20	23.20	Y200L-4	30			-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000		-8.8	33.90	9.00	Y160M-4	11	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	32.80	12.20	Y160L-4	15			-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900		-34.3	30.20	24.80	Y200L-4	30	1080			-44.1	22.40	25.90	Y200L-4	30	1770			-39.2	29.60	28.00	Y225S-4	37			-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900		-8.8	39.30	10.20	Y160L-4	15	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																											
	-29.4	18.10	14.40	Y180M-4	22		1480 °	-34.3	17.40	16.90	Y180L-4	22			1080	-44.1	16.00	20.60	Y200L-4	30			1770	-39.2	16.80	18.50	Y180L-4	22				-44.1	16.00	20.60	Y200L-4	30			-49.0	15.00	22.70	Y200L-4	30		-53.9	14.00	24.80	Y200L-4	30	1750	-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4	30			1770	-14.7	26.40	10.10	Y160L-4	15				-19.6	25.90	12.70	Y160L-4	15			-24.5	25.20	15.40	Y180M-4	22		-29.4	24.50	18.00	Y180L-4	22	1900	-34.3	23.80	20.60	Y200L-4	30		1080	-44.1	18.00	22.70	Y200L-4	30			1770	-39.2	23.20	23.20	Y200L-4	30				-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	32.80	12.20	Y160L-4	15				-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30			1770	-39.2	29.60	28.00	Y225S-4	37				-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	38.20	13.90	Y180M-4	22				-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																	
1480 °	-34.3	17.40	16.90	Y180L-4	22	1080		-44.1	16.00	20.60	Y200L-4	30	1770																																																																																																																																																																																																																																																																																																																																																																																	
	-39.2	16.80	18.50	Y180L-4	22			-44.1	16.00	20.60	Y200L-4	30				-49.0	15.00	22.70	Y200L-4	30				-53.9	14.00	24.80	Y200L-4	30			1750	-8.8	27.50	7.50	Y160M-4	11		1080	-49.0	18.00	22.70	Y200L-4	30	1770	-14.7	26.40	10.10	Y160L-4	15		-19.6	25.90	12.70	Y160L-4	15			-24.5	25.20	15.40	Y180M-4	22				-29.4	24.50	18.00	Y180L-4	22			1900	-34.3	23.80	20.60	Y200L-4	30		1080	-44.1	18.00	22.70	Y200L-4	30	1770	-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37				-53.9	20.40	31.30	Y225S-4	37			2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22				-29.4	30.90	21.60	Y200L-4	30			1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45				-53.9	26.80	37.40	Y225M-4	45			1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30			1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																						
	-44.1	16.00	20.60	Y200L-4	30			-49.0	15.00	22.70	Y200L-4	30				-53.9	14.00	24.80	Y200L-4	30		1750		-8.8	27.50	7.50	Y160M-4	11		1080		-49.0	18.00	22.70	Y200L-4	30	1770		-14.7	26.40	10.10	Y160L-4	15		-19.6	25.90	12.70	Y160L-4	15		-24.5	25.20	15.40	Y180M-4	22			-29.4	24.50	18.00	Y180L-4	22		1900		-34.3	23.80	20.60	Y200L-4	30		1080		-44.1	18.00	22.70	Y200L-4	30	1770		-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4	37			-53.9	20.40	31.30	Y225S-4	37		2000		-8.8	33.90	9.00	Y160M-4	11		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22			-29.4	30.90	21.60	Y200L-4	30		1900		-34.3	30.20	24.80	Y200L-4	30		1080		-44.1	22.40	25.90	Y200L-4	30	1770		-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45			-53.9	26.80	37.40	Y225M-4	45		1900		-8.8	39.30	10.20	Y160L-4	15		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30			-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																														
	-49.0	15.00	22.70	Y200L-4	30			-53.9	14.00	24.80	Y200L-4	30		1750		-8.8	27.50	7.50	Y160M-4	11	1080			-49.0	18.00	22.70	Y200L-4	30	1770			-14.7	26.40	10.10	Y160L-4	15			-19.6	25.90	12.70	Y160L-4	15		-24.5	25.20	15.40	Y180M-4	22		-29.4	24.50	18.00	Y180L-4	22	1900		-34.3	23.80	20.60	Y200L-4	30	1080			-44.1	18.00	22.70	Y200L-4	30	1770			-39.2	23.20	23.20	Y200L-4	30			-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000		-8.8	33.90	9.00	Y160M-4	11	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	32.80	12.20	Y160L-4	15			-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900		-34.3	30.20	24.80	Y200L-4	30	1080			-44.1	22.40	25.90	Y200L-4	30	1770			-39.2	29.60	28.00	Y225S-4	37			-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900		-8.8	39.30	10.20	Y160L-4	15	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																					
	-53.9	14.00	24.80	Y200L-4	30		1750	-8.8	27.50	7.50	Y160M-4	11			1080	-49.0	18.00	22.70	Y200L-4	30			1770	-14.7	26.40	10.10	Y160L-4	15				-19.6	25.90	12.70	Y160L-4	15			-24.5	25.20	15.40	Y180M-4	22		-29.4	24.50	18.00	Y180L-4	22	1900	-34.3	23.80	20.60	Y200L-4	30		1080	-44.1	18.00	22.70	Y200L-4	30			1770	-39.2	23.20	23.20	Y200L-4	30				-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	32.80	12.20	Y160L-4	15				-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30			1770	-39.2	29.60	28.00	Y225S-4	37				-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	38.20	13.90	Y180M-4	22				-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																											
1750	-8.8	27.50	7.50	Y160M-4	11	1080		-49.0	18.00	22.70	Y200L-4	30	1770																																																																																																																																																																																																																																																																																																																																																																																	
	-14.7	26.40	10.10	Y160L-4	15			-19.6	25.90	12.70	Y160L-4	15				-24.5	25.20	15.40	Y180M-4	22				-29.4	24.50	18.00	Y180L-4	22			1900	-34.3	23.80	20.60	Y200L-4	30		1080	-44.1	18.00	22.70	Y200L-4	30	1770	-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37				-53.9	20.40	31.30	Y225S-4	37			2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22				-29.4	30.90	21.60	Y200L-4	30			1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45				-53.9	26.80	37.40	Y225M-4	45			1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30			1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																
	-19.6	25.90	12.70	Y160L-4	15			-24.5	25.20	15.40	Y180M-4	22				-29.4	24.50	18.00	Y180L-4	22		1900		-34.3	23.80	20.60	Y200L-4	30		1080		-44.1	18.00	22.70	Y200L-4	30	1770		-39.2	23.20	23.20	Y200L-4	30		-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4	37			-53.9	20.40	31.30	Y225S-4	37		2000		-8.8	33.90	9.00	Y160M-4	11		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22			-29.4	30.90	21.60	Y200L-4	30		1900		-34.3	30.20	24.80	Y200L-4	30		1080		-44.1	22.40	25.90	Y200L-4	30	1770		-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45			-53.9	26.80	37.40	Y225M-4	45		1900		-8.8	39.30	10.20	Y160L-4	15		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30			-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																								
	-24.5	25.20	15.40	Y180M-4	22			-29.4	24.50	18.00	Y180L-4	22		1900		-34.3	23.80	20.60	Y200L-4	30	1080			-44.1	18.00	22.70	Y200L-4	30	1770			-39.2	23.20	23.20	Y200L-4	30			-44.1	22.40	25.90	Y200L-4	30		-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000		-8.8	33.90	9.00	Y160M-4	11	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	32.80	12.20	Y160L-4	15			-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900		-34.3	30.20	24.80	Y200L-4	30	1080			-44.1	22.40	25.90	Y200L-4	30	1770			-39.2	29.60	28.00	Y225S-4	37			-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900		-8.8	39.30	10.20	Y160L-4	15	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																															
	-29.4	24.50	18.00	Y180L-4	22		1900	-34.3	23.80	20.60	Y200L-4	30			1080	-44.1	18.00	22.70	Y200L-4	30			1770	-39.2	23.20	23.20	Y200L-4	30				-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37		-53.9	20.40	31.30	Y225S-4	37	2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	32.80	12.20	Y160L-4	15				-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30			1770	-39.2	29.60	28.00	Y225S-4	37				-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	38.20	13.90	Y180M-4	22				-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																					
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	-39.2	23.20	23.20	Y200L-4	30			-44.1	22.40	25.90	Y200L-4	30				-49.0	21.40	28.60	Y225S-4	37				-53.9	20.40	31.30	Y225S-4	37			2000	-8.8	33.90	9.00	Y160M-4	11		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22				-29.4	30.90	21.60	Y200L-4	30			1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45				-53.9	26.80	37.40	Y225M-4	45			1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30			1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																										
	-44.1	22.40	25.90	Y200L-4	30			-49.0	21.40	28.60	Y225S-4	37				-53.9	20.40	31.30	Y225S-4	37		2000		-8.8	33.90	9.00	Y160M-4	11		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	32.80	12.20	Y160L-4	15		-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22			-29.4	30.90	21.60	Y200L-4	30		1900		-34.3	30.20	24.80	Y200L-4	30		1080		-44.1	22.40	25.90	Y200L-4	30	1770		-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45			-53.9	26.80	37.40	Y225M-4	45		1900		-8.8	39.30	10.20	Y160L-4	15		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30			-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																		
	-49.0	21.40	28.60	Y225S-4	37			-53.9	20.40	31.30	Y225S-4	37		2000		-8.8	33.90	9.00	Y160M-4	11	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	32.80	12.20	Y160L-4	15			-19.6	32.30	15.30	Y180M-4	22		-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900		-34.3	30.20	24.80	Y200L-4	30	1080			-44.1	22.40	25.90	Y200L-4	30	1770			-39.2	29.60	28.00	Y225S-4	37			-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900		-8.8	39.30	10.20	Y160L-4	15	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																									
	-53.9	20.40	31.30	Y225S-4	37		2000	-8.8	33.90	9.00	Y160M-4	11			1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	32.80	12.20	Y160L-4	15				-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22		-29.4	30.90	21.60	Y200L-4	30	1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30			1770	-39.2	29.60	28.00	Y225S-4	37				-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	38.20	13.90	Y180M-4	22				-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																															
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	-14.7	32.80	12.20	Y160L-4	15			-19.6	32.30	15.30	Y180M-4	22				-24.5	31.60	18.50	Y180L-4	22				-29.4	30.90	21.60	Y200L-4	30			1900	-34.3	30.20	24.80	Y200L-4	30		1080	-44.1	22.40	25.90	Y200L-4	30	1770	-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45				-53.9	26.80	37.40	Y225M-4	45			1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30			1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																				
	-19.6	32.30	15.30	Y180M-4	22			-24.5	31.60	18.50	Y180L-4	22				-29.4	30.90	21.60	Y200L-4	30		1900		-34.3	30.20	24.80	Y200L-4	30		1080		-44.1	22.40	25.90	Y200L-4	30	1770		-39.2	29.60	28.00	Y225S-4	37		-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45			-53.9	26.80	37.40	Y225M-4	45		1900		-8.8	39.30	10.20	Y160L-4	15		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30			-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																												
	-24.5	31.60	18.50	Y180L-4	22			-29.4	30.90	21.60	Y200L-4	30		1900		-34.3	30.20	24.80	Y200L-4	30	1080			-44.1	22.40	25.90	Y200L-4	30	1770			-39.2	29.60	28.00	Y225S-4	37			-44.1	28.80	31.20	Y225S-4	37		-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900		-8.8	39.30	10.20	Y160L-4	15	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																			
	-29.4	30.90	21.60	Y200L-4	30		1900	-34.3	30.20	24.80	Y200L-4	30			1080	-44.1	22.40	25.90	Y200L-4	30			1770	-39.2	29.60	28.00	Y225S-4	37				-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45		-53.9	26.80	37.40	Y225M-4	45	1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	38.20	13.90	Y180M-4	22				-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																									
1900	-34.3	30.20	24.80	Y200L-4	30	1080		-44.1	22.40	25.90	Y200L-4	30	1770																																																																																																																																																																																																																																																																																																																																																																																	
	-39.2	29.60	28.00	Y225S-4	37			-44.1	28.80	31.20	Y225S-4	37				-49.0	27.80	34.30	Y225M-4	45				-53.9	26.80	37.40	Y225M-4	45			1900	-8.8	39.30	10.20	Y160L-4	15		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30			1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																														
	-44.1	28.80	31.20	Y225S-4	37			-49.0	27.80	34.30	Y225M-4	45				-53.9	26.80	37.40	Y225M-4	45		1900		-8.8	39.30	10.20	Y160L-4	15		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-14.7	38.20	13.90	Y180M-4	22		-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30			-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																						
	-49.0	27.80	34.30	Y225M-4	45			-53.9	26.80	37.40	Y225M-4	45		1900		-8.8	39.30	10.20	Y160L-4	15	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22		-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																													
	-53.9	26.80	37.40	Y225M-4	45		1900	-8.8	39.30	10.20	Y160L-4	15			1080	-49.0	21.40	28.60	Y225S-4	37			1770	-14.7	38.20	13.90	Y180M-4	22				-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30		-29.4	36.30	24.70	Y200L-4	30	1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																			
1900	-8.8	39.30	10.20	Y160L-4	15	1080		-49.0	21.40	28.60	Y225S-4	37	1770																																																																																																																																																																																																																																																																																																																																																																																	
	-14.7	38.20	13.90	Y180M-4	22			-19.6	37.70	17.50	Y180L-4	22				-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30			1900	-34.3	35.60	28.30	Y225S-4	37		1080	-49.0	21.40	28.60	Y225S-4	37	1770	-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																								
	-19.6	37.70	17.50	Y180L-4	22			-24.5	37.00	21.10	Y200L-4	30				-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37		1080		-49.0	21.40	28.60	Y225S-4	37	1770		-39.2	35.00	31.90	Y225S-4	37		-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																
	-24.5	37.00	21.10	Y200L-4	30			-29.4	36.30	24.70	Y200L-4	30		1900		-34.3	35.60	28.30	Y225S-4	37	1080			-49.0	21.40	28.60	Y225S-4	37	1770			-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45		-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																							
	-29.4	36.30	24.70	Y200L-4	30		1900	-34.3	35.60	28.30	Y225S-4	37			1080	-49.0	21.40	28.60	Y225S-4	37			1770	-39.2	35.00	31.90	Y225S-4	37				-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45		-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																													
1900	-34.3	35.60	28.30	Y225S-4	37	1080		-49.0	21.40	28.60	Y225S-4	37	1770																																																																																																																																																																																																																																																																																																																																																																																	
	-39.2	35.00	31.90	Y225S-4	37			-44.1	34.20	35.50	Y225M-4	45				-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																																																		
	-44.1	34.20	35.50	Y225M-4	45			-49.0	33.20	39.10	Y225M-4	45				-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																																																										
	-49.0	33.20	39.10	Y225M-4	45			-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																																																																		
	-53.9	32.20	42.70	Y225M-4	45																																																																																																																																																																																																																																																																																																																																																																																									



## RSR Series Belt Drive Drawings

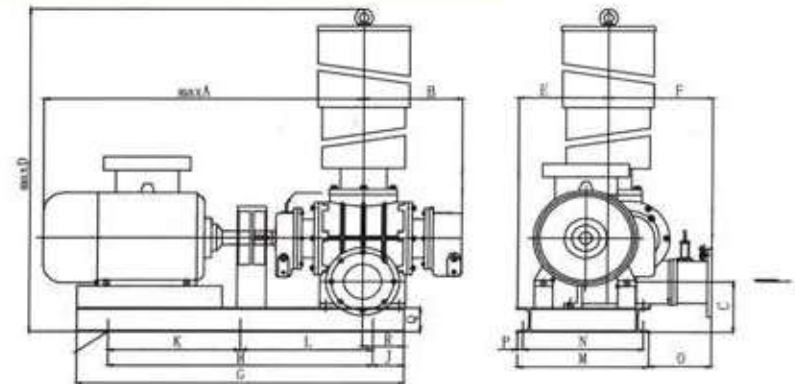


Model	Bore	A	B	C	D	Ed	Es	F	G	H	J
RSR-50	50A	255	165	120	895	225	260	201	560	410	100
RSR-65	65A	255	165	130	950	243	280	221	600	450	100
RSR-80	80A	290	205	150	1250	245	300	240	750	500	100
RSR-100	100A	290	205	160	1320	285	340	280	800	580	100
RSR-125	125A	345	215	185	1450	290	356	290	910	700	110
RSR-150C	150A	360	220	210	1650	369	—	356	1010	700	110
RSR-150A	150A	400	240	210	1730	335	400	300	1050	750	160
RSR-150	150A	400	240	210	1730	390	450	375	1050	750	160
RSR-175A	150A	400	240	210	1730	432	500	418	1050	750	160
RSR-175	150 A	400	250	210	1685	477	—	463	1050	750	160
RSR-200H	200A	500	285	250	2200	485	555	465	1280	1000	180
RSR-200	200A	500	285	250	2200	536	605	515	1330	1000	180
RSR-250D	250A	500	285	360	2240	611	680	590	1500	1000	215
RSR-250	250A	710	370	360	2400	575	640	580	1800	1490	210
RSR-300	300A	710	420	385	2780	655	775	670	1800	1490	210

Model	Bore	L	M	Nd	Ns	P	Q	n-Ø1	R	S	Weight(kg)
RSR-50	50A	—	300	130	166	15	80	4-Ø14	490	730	132
RSR-65	65A	—	340	150	186	15	80	4-Ø14	530	780	173
RSR-80	80A	—	360	150	205	15	80	4-Ø18	690	970	245
RSR-100	100A	—	470	190	245	15	80	4-Ø18	720	1000	334
RSR-125	125A	350	500	180	240	20	100	6-Ø18	790	1230	451
RSR-150C	150A	350	590	250	—	20	100	6-Ø18	850	1300	506
RSR-150A	150A	375	590	195	268	20	100	6-Ø18	1070	1350	805
RSR-150	150A	375	590	250	325	20	100	6-Ø18	1070	1350	777
RSR-175A	150A	375	755	295	360	20	100	6-Ø18	1075	1350	860
RSR-175	150A	375	755	340	—	20	100	6-Ø18	1000	1350	860
RSR-200H	200A	500	755	300	373	25	120	6-Ø20	1290	1765	1324
RSR-200	200A	500	755	355	425	25	120	6-Ø20	1290	1765	1489
RSR-250D	250A	500	950	430	500	30	160	6-Ø22	1295	2010	2152
RSR-250	250A	745	875	385	465	30	160	6-Ø22	1320	2380	2978
RSR-300	300A	745	1080	420	580	30	160	6-Ø22	1550	2960	3310

Note: Ed, Nd for Single Oil Tank, Es, Ns for Double Oil Tank.  
The weights not include the motor.

## RSR Series Coupling Drive Drawings



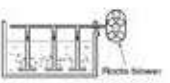
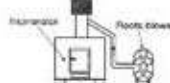
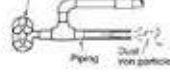

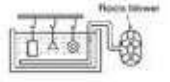


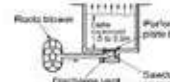
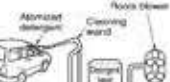


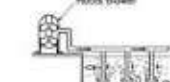








Model	Bore	A	B	C	D	E	F	G	H	J
RSR-50	50A	696	201	125	895	160	255	580	420	80
RSR-65	65A	756	221	135	950	200	255	600	440	80
RSR-80	80A	926	240	150	1250	265	290	820	500	160
RSR-100	100A	996	280	160	1320	295	290	880	630	125
RSR-125	125A	1077	290	185	1450	285	345	1000	710	145
RSR-150C	150A	1250	356	210	1730	350	400	1250	1010	120
RSR-150A	150A	1382	318	210	1730	335	400	1250	1010	120
RSR-150	150A	1439	375	210	1730	335	400	1250	1010	120
RSR-175A	150A	1482	418	210	1730	335	400	1500	1010	200
RSR-175	150A	1595	463	210	1800	410	410	1700	700	150
RSR-200H	200A	1739	463	250	2200	435	500	1700	1400	150
RSR-200	200A	1791	515	250	2200	435	500	1700	1400	150
RSR-250D	250A	1866	590	360	2240	435	500	2000	1800	100
RSR-250	250A	1800	580	360	2400	600	710	1700	1400	150
RSR-300	300A	1900	670	385	2780	650	710	1900	1600	150

Model	Bore	L	M	Nd	Ns	P	Q	n-Ø1	R	S	Weight(kg)
RSR-50	50A	—	300	130	166	15	80	4-Ø14	490	730	132
RSR-65	65A	—	340	150	186	15	80	4-Ø14	530	780	173
RSR-80	80A	—	360	150	205	15	80	4-Ø18	690	970	245
RSR-100	100A	—	470	190	245	15	80	4-Ø18	720	1000	334
RSR-125	125A	350	500	180	240	20	100	6-Ø18	790	1230	451
RSR-150C	150A	350	590	250	—	20	100	6-Ø18	850	1300	506
RSR-150A	150 A	375	590	195	268	20	100	6-Ø18	1070	1350	805
RSR-150	150A	375	590	250	325	20	100	6-Ø18	1070	1350	777
RSR-175A	150 A	375	755	295	368	20	100	6-Ø18	1075	1350	860
RSR-175	150A	375	755	340	—	20	100	6-Ø18	1000	1350	860
RSR-200H	200A	500	755	300	373	25	120	6-Ø20	1290	1765	1324
RSR-200	200A	500	755	355	425	25	120	6-Ø20	1290	1765	1489
RSR-250D	250A	500	950	430	500	30	160	6-Ø22	1295	2010	2152
RSR-250	250A	745	875	385	465	30	160	6-Ø22	1320	2380	2978
RSR-300	300A	745	1080	420	580	30	160	6-Ø22	1550	2960	3310


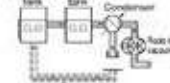
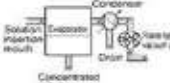

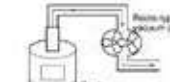
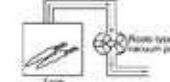
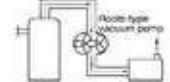
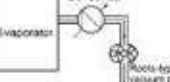
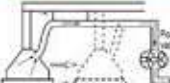


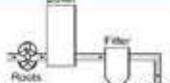





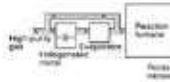
Note: Ed, Nd for Single Oil Tank, Es, Ns for Double Oil Tank.  
The weights not include the motor.



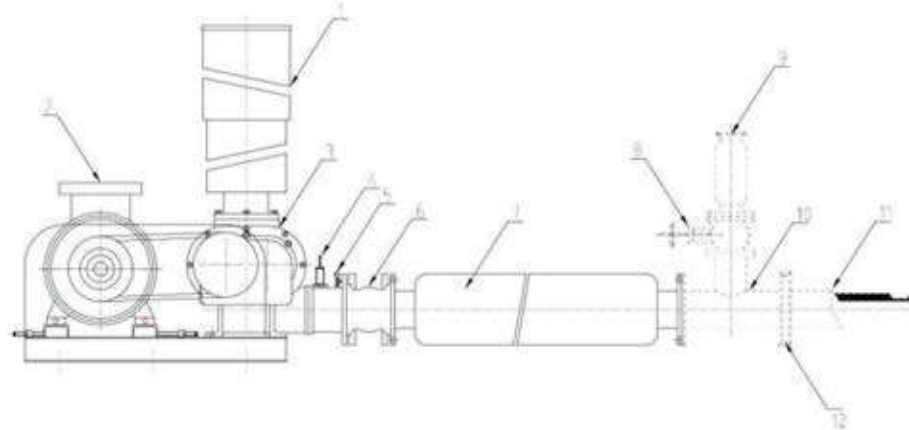
## Roots Blower Applications

Water Treatment	Incinerators	Cleaning of Pipes	Air Blower
 <p>Blowers are used to purify water and stir up sediment at water treatment plants.</p>	 <p>Blowers enhance combustion efficiency and promote the removal of exhaust gases.</p>	 <p>Blowers can be used to remove dust and iron particles when piping is replaced or periodically checked. They can also be used to supply various kinds of coating material to the interior of pipes.</p>	 <p>Here blower is used to blow off drops of water clinging to surfaces of cans, bottles, machine parts, etc. Air blowers can also be used as sources of cooling or drying air.</p>
Plating Bath	Ozonizer	Snow Machine	Fermentation
 <p>Plating quality can be enhanced by using a blower to circulate electrolytes in the plating bath to give the plating a more uniform thickness. Here blowers serve as the source of air supply.</p>	 <p>This blower is used as the air supply source for a high-concentration ozonizer.</p>	 <p>Six resorts use blowers for pneumatic transport with artificial snow machines.</p>	 <p>The stream of air provided by the blower promotes the fermentation of livestock excrement, etc., for efficient composting.</p>
Atomization of Detergent	Paper Feed for Printer	Frozen Food	Aquaculture Oxygen Supply
 <p>Blowers conserve energy at car washes by atomizing water and detergent.</p>	 <p>Air discharged from blowers facilitates the separation of sheets of paper as well as their distributor in reel press after printing.</p>	 <p>Blowers are useful in the spin-freezing of frozen foods in water.</p>	 <p>Aquariums producing all sorts of fish and shellfish use blowers to oxygenate and circulate the water in tanks. Blowers are also used for aquariums and live fish tanks.</p>
Sand Blasting	Airlift Pump	Press	Medical Treatment Bath
 <p>Provides a concentrated blast of air for use in sandblasting.</p>	 <p>Bubbles formed by air jet lift water through the pipe by reducing the specific gravity of sewage.</p>	 <p>Blower is used for lift when removing molded products from the press.</p>	 <p>Blowers supply the air that creates the whirlpool in a Jacuzzi hot tub. Many health centers and other facilities have introduced whirlpool baths for their therapeutic effects.</p>
Back Washing	Drying Line	Particle Transportation	Special Gas
 <p>Blowers are used to optimize filter and filter material performance by backwashing.</p>	 <p>Our blowers are used to good effect in small-scale drying lines.</p>	 <p>Blower is used for the pneumatic conveyance of selected raw materials such as vinyl chloride and polyethylene. (The vacuum motor will work here as well.)</p>	 <p>Blowers serve vital functions in the supply of oily gas, etc.</p>

## Roots Blower Applications

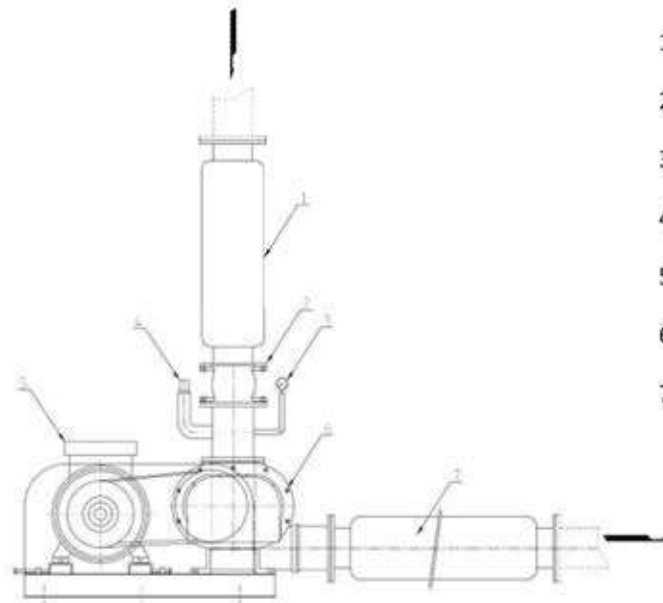
Food Processing	Vacuum Drying	Vacuum Drying	Leak Tester
 <p>Vacuum conditions are useful in the seasoning of foods.</p>	 <p>Here, a Roots-type vacuum pump that can collect solvent drainage is ideal (used with drainage pot).</p>	 <p>Used to vacuum dry the moisture.</p>	 <p>Can be used in tests of airtightness.</p>
Vacuum Packing of Food	Freeze Drying	Sterilization Apparatus	Concentration/Distillation
 <p>Vacuum packing keeps foods such as meat and vegetables fresh.</p>	 <p>Freshness and quality of vegetables and other foods can also be preserved by freezing the foods in tanks under vacuum conditions.</p>	 <p>Our pumps are used as vacuum sources in sterilizers.</p>	 <p>In these processes, liquids are made more concentrated by evaporation, or the vapor produced is cooled and returned once again to liquid state.</p>
Adsorption Conveyance	Particle Transport	Soil Remediation	Combustion Gas Recovery
 <p>Adsorption conveyance by vacuum pump is well suited to heavy materials such as steel plates and easily breakable materials such as glass. Energy savings are promoted by the elimination of piping operations.</p>	 <p>Used in the conveyance of rice, wheat, soybeans, resin pellets, etc.</p>	 <p>Used in the decontamination of soil and groundwater.</p>	 <p>Also used in the desulfurization of high-temperature combustion gas and flue gas.</p>
Vacuum Molding	Vacuum Defoaming	Impregnation	
 <p>Roots-type vacuum pumps are used as vacuum sources for vacuum molders used with resins, etc. (trap attached).</p>	 <p>Product quality is improved for chemicals and pharmaceuticals by using a Roots-type vacuum pump to remove air bubbles by detaching under vacuum.</p>	 <p>In this setup, our pumps first produce a vacuum in the tank and then supply high pressure to facilitate the impregnation of parts with liquids or gases.</p>	
Experiments	VPSA/PSA	Heat Treatment	
 <p>Dry vacuum pumps can be used to create a "space environment" on Earth by producing a vacuum state within a space chamber.</p>	 <p>This configuration allows a blower used in combination with a vacuum pump.</p>	 <p>Reaction furnace for heat treatment need to be airtight so that no air or air will become admixed with the reactants. Roots-type vacuum pumps can meet this need.</p>	

### Roots Blower Installation Sample



- 1.Inlet Silencer 2.Motor 3.Roots Blower 4.Safety Valve 5.Pressure Gauge 6.Flexible Connector  
7.Outlet Silencer 8.Gatevalve 9.Empty Silencer 10.Empty Joint 11.Main Pipe 12.Check Valve

### Vacuum Pump Installation Sample



- 1.Inlet Silencer  
2.Flexible Connector  
3.Pressure Gauge  
4.Vacuum Degree Valve  
5.Motor  
6.Roots Blower  
7.Outlet Silencer