DENV·AIR COMPRESSORS

COMPRESSED AIR TECHNOLOGY

VALUE ANALYZED – REVOLUTIONARY TECHNOLOGY DESIGNED SCREW COMPRESSOR

RED LINE

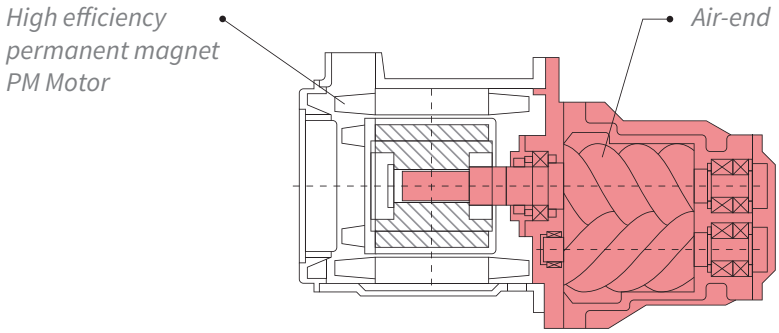
DAPM

ECONOMICAL SCREW COMPRESSORS

OUR GOAL IS AN OUTSTANDING QUALITY!

- We succeeded in achieving the perfect 100% direct drive
- Permanent magnet motor and air-end built together
- No gears, no belts neither couplings
- Half sized motor without motor bearings
- No need for sealings, tubes, resulting no overheating
- Soft start avoidance of electrical overload
- Excessively silenced operation
  (-10 dbA compared to usual machinery)
- Canopy side doors with applied magnet lock

Main elements of the new PM construction:

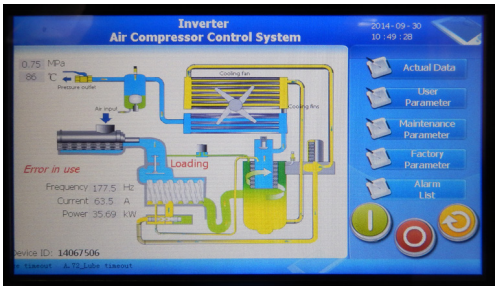


Main advantages of the new PM construction:

- Economically variable speed control
- Equal efficiency overall the full regulation range
- 30-40% less energy consumption
- Longer lifetime, higher efficiency
- Low operational and maintanance costs
- Fast pay-off with value analyzed price

OUTSTANDING ENERGY SAVING

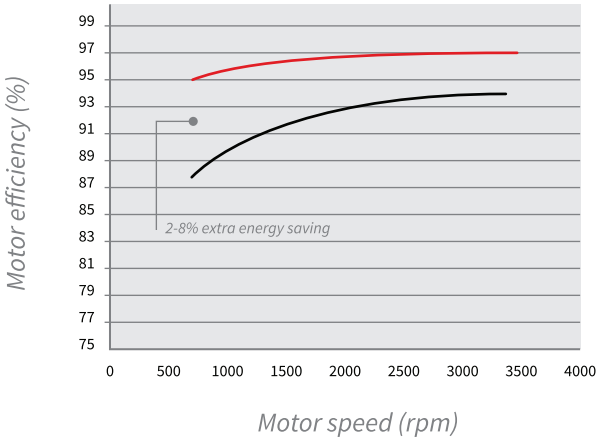
Colour LCD touchscreen control panel:



- One of the most modern visual display control panel on the market
- Working mechanism illustrated with real time moving process to let the customer see the compressors up-to-date momentary status
- Fully monitored working process , including pressure, temperature, frequency, and current power consumption.
- Faults and maintenance information message display and storage.

REVOLUTIONARY DESIGN

Efficiency comparison



PM magnet motor (75kW)

Conventional motor (75kW)

Total cost distribution
by category in 5 years interval

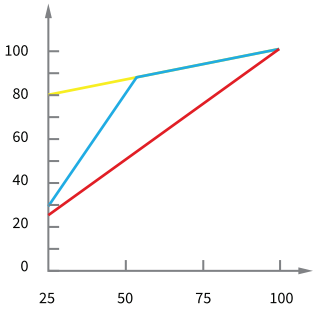
Energy saving

Energy cost

Purchase cost

Maintenance cost

Output (%)

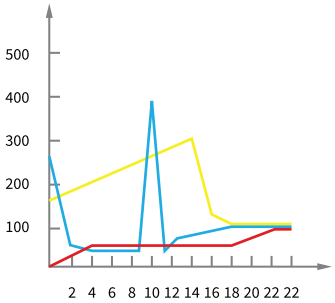


Speed regulated DAPM

Load /unload regulation

Modulation regulation

Power consumption referring to
full load at start up (%)

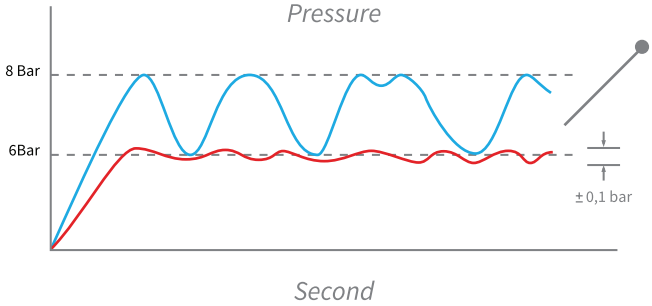


Speed regulated DAPM

Star-Delta starter

Soft starter

Pressure



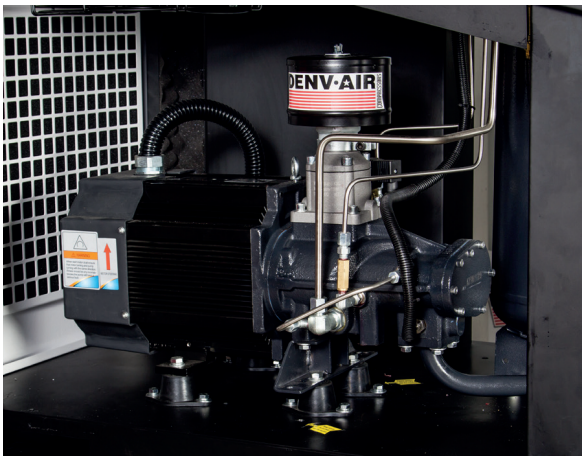
With speed regulation at least 2 bar differential pressure can be recovered in the enegy saving range.

Lowering the working pressure level with 1 bar results 7% saving relating the energy consumption. Therefore skipping 2 bar differential pressure could result up to 14% saving regarding the total consumpted energy value.

Variable speed regulated DAPM compressor (permanent and precise pressure level holding)

On load / Off load controlled conventional compressor

RELIABILITY AND EXPERTISES



DAPM VARIABLE SPEED SCREW COMPRESSOR MODELS

Model			DAPM 7,5A	DAPM 10A	DAPM 15A	DAPM 20A	DAPM 25A	DAPM 30A	DAPM 40A	DAPM 50A	DAPM 60A	DAPM 75A	DAPM 100A	DAPM 150A	DAPM 175A
Nominal motor power *(kw)*			5,5	7,5	11	15	18,5	22	30	37	45	55	75	110	132
Free Air delivery *(m³/min)*	8 bar	min.	0,2	0,3	0.39	0,57	0,76	0,91	1,3	1,59	1,81	2,57	3,23	5,9	7,0
		max.	0,82	1,2	1,58	2,3	3,07	3,64	5,2	6,38	7,25	10,3	12,95	19,9	23,98
	10 bar	min.	0,17	0,24	0,34	0,46	0,65	0,78	1,15	1,48	1,65	2,16	2,88	6,0	8,9
		max.	0,71	0,97	1,36	1,86	2,6	3,15	4,63	5,92	6,6	8,67	11,53	17,8	21,55
Sound level *(dbA)*			60±2	60±2	60±2	60±2	62±2	62±2	62±2	62±2	62±2	65±2	65±2	68±2	68±2
Connection			G 3/4”	G 3/4”	G 3/4”	G 3/4”	G 1 1/4”	G 1 1/4”	G 1 1/4”	G 1 1/2”	G 1 1/2”	G 2”	G 2”	DN65	DN65
Dimensions *(mm)*		L	950	950	1050	1050	1000	1000	1100	1150	1150	1600	1600	2500	2500
		W	670	670	700	700	750	750	900	950	950	1300	1300	1970	1970
		H	900	900	1120	1120	1150	1150	1300	1310	1310	1650	1650	2080	2080
Weight *(kg)*			195	215	260	270	385	405	600	650	670	1380	1480	2350	2350
Power			400V / 3 ph / 50 Hz												

Available options: BMS connection , data logging function, energy consumption measurement, surveillance, bulit-in heat recovery systems, workplace solution (tank mounted - additional dryer – additional in-line filters)

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