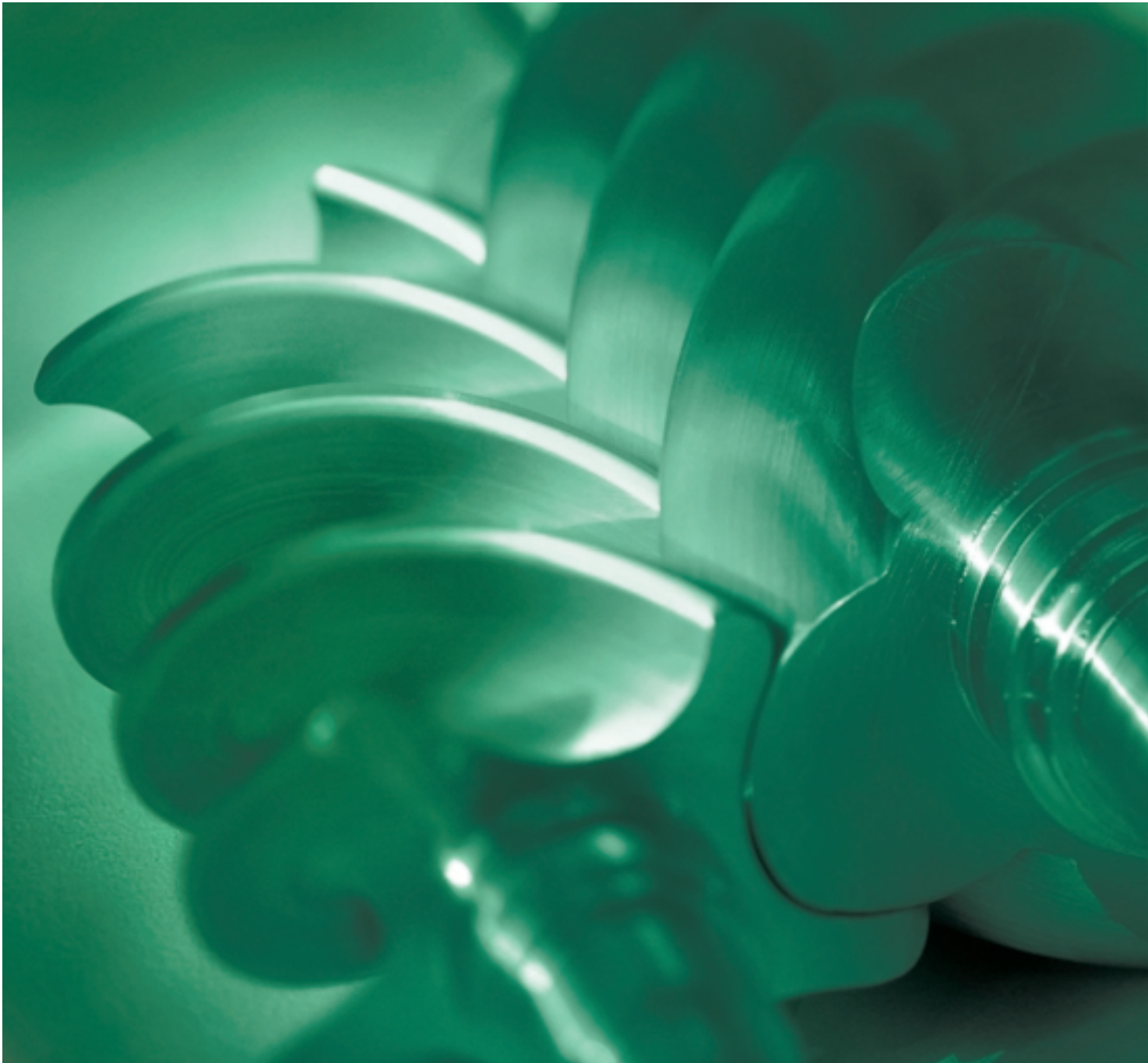


**Gardner**  
**Denver**

**ENDURO<sup>®</sup>**  
**TEMPEST<sup>®</sup>**  
**CT SERIES**





# ENDURO® – THE WORLD STANDARD FOR ENDURANCE AND EFFICIENCY

## **T**he number one air end

Gardner Denver's ENDURO® air end has set new standards for air end endurance and efficiency. The world's most popular and reliable air end can be economically used in a wide range of compressor applications. Numerous global screw compressor manufacturers regard ENDURO® as their absolute choice. Over 100,000 ENDURO® units have made their mark as the number one in the world market.

### Exclusive ENDURO® Selector

The complete and sophisticated ENDURO® Selector software selects the optimum air end (or gas end) for your specific conditions. This software tool provides technical information, performance curves and all sizing information to design an efficient compressor package for any application.

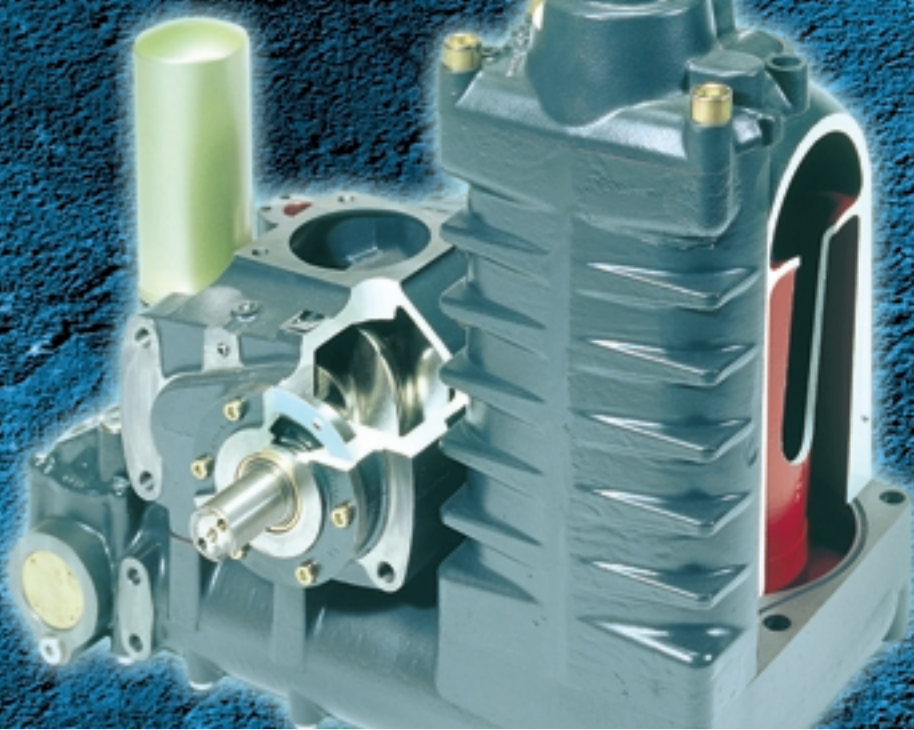
## Unique TAMROTOR® technology

The ENDURO® design is based on an innovative and proprietary rotor profile, resulting from TAMROTOR®'s nearly 40 years of expertise as an industry leader in screw compressor technology.

- Unique lobe combination for short seal line means fewer leaks
- Patented rotor profile gives maximum performance and high efficiency
- Ultra-modern manufacturing technology guarantees high and consistent quality
- Exceptional efficiency over wide speed range makes ENDURO® air ends adaptable to variable speed applications

*The unbeatable winners, ENDURO® air ends combine original Gardner Denver design and manufacture based on TAMROTOR® technology.*





# WITH THE COMPACT CONSTRUCTION OF TEMPEST®

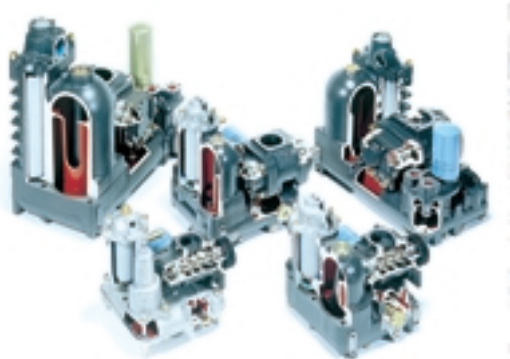
## The integrated compressor unit

TEMPEST® is an excellent example of Gardner Denver's ingenuity as a leading developer of compressor technology. This integrated compressor unit with ENDURO® air end fulfills the most demanding specifications for all kinds of compressors.

### Extended family

The TEMPEST® family of integrated screw compressors is ideal for all compressed air needs. The wide range of TEMPEST® products covers all ENDURO® air ends from 4 kW up to 75 kW. All these units share a unique construction with the following advantages:

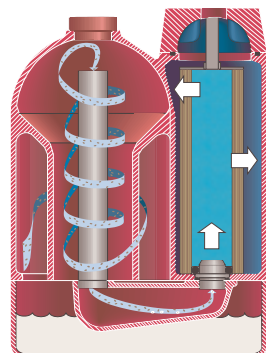
- Compact cast iron or aluminium (Tempest 2) construction
- Completely leak-tight o-ring design
- Low noise levels
- Wear-and-tear parts easy to change
- Standard air end directly bolted into the oil sump



## Superior oil separation

TEMPEST® integrates the screw compressor and oil separation system in a completely new way. Its innovative three-stage oil separation system provides superior oil separation compared to any other oil-lubricated screw compressor. This results in an oil carry-over of less than 3.0 mg/m<sup>3</sup>.

- Single unit to eliminate extra oil separation systems
- Low internal pressure drop
- Separator element based on the unique in-to-out construction
- Integrated discharge valve, oil filter and oil thermostat



*TEMPEST® oil separation principle: Compressed air-oil mist flows from the air end to mechanical impingement chamber. The flow then enters the centrifugal cyclone for high efficiency separation. After that the air flows to high capacity separator elements for final separation, after which the air passes through minimum pressure discharge valve further on in the process.*



# CT SERIES FOR ALL THE BENEFITS IN ONE PACKAGE

## **T**he tough package for harsh conditions

Gardner Denver's TAMROTOR® CT Compressor Series is designed to withstand the roughest working conditions. These machines are resistant to constant movement and temperature changes. The CT Series can be used in mobile equipment, such as drilling machines, fire trucks, service trucks, trains and other heavy-duty applications.

- Withstands inclination up to 15°
- Adapts to temperature variation between -20°C – +40°C (-4°F – +104°F) (without extra after-coolers and water separators)



## **Flexible in use**

The CT compressors adapt to various requirements and you can easily apply them to all kinds of working environments.

- Tailored to your specific needs with options for hydraulic, diesel and electric, even inverter drive
- Compact construction allows installation in all applications

## **Lifetime reliability**

Based on TAMROTOR®'s famous high-quality technology, the CT machines offer superior reliability and durability. They combine simple controls with user-friendly compressor functions. The integrated TEMPEST® construction eliminates oil leaks and problem areas.

- Cleaner air with TEMPEST® oil separation
- Less after-treatment required
- Economical air production with ENDURO® air end



# PERFORMANCE THAT REACHES THE HEIGHTS AND DEPTHS OF YOUR COMPRESSED AIR APPLICATIONS

## **W**herever your business takes you

The ENDURO® air end and the TEMPEST® integrated compressor unit are the heart of compressed air production. In our CT Series compressor packages ENDURO® and TEMPEST® work for you to guarantee the highest availability and efficiency in each application.

### **Deep underground and high in the sky**

The CT Series units provide an ideal solution for various mobile-mounted applications. Proven for years in the most difficult applications, these products are used in drilling equipment, as well as mining and construction vehicles and applications. They can just as easily be applied in vehicles working in rugged mountain terrain or in airplanes soaring skywards. In addition to these extremes, you can use the CT Series units in various other commercial, industrial and heavy-duty applications.



*Underground: Tamrock Robolt  
drilling machine at work with  
Gardner Denver CT inside.*

# TECHNICAL DATA

ENDURO	Recommended motor power		Capacity at 7 bar pressure		Speed range	Net weight	
	kW	hp	m <sup>3</sup> /min	cfm	rpm	kg	lbs
E3	4-15	5-20	0,5-2,3	18-80	2500-10000	15	33
E6	7,5-30	10-40	0,8-4,3	28-150	2000-8000	31	68
E12	15-45	20-60	2,0-7,2	70-250	1000-6500	56	123
E25	22-75	30-100	3,7-13	130-460	1200-5600	112	247
E75	75-215	100-300	6-29	210-1020	850-4300	308	680
E175	132-315	150-425	15-45	530-1590	1000-2800	750	1650
dia 321	200-500	250-650	11-73	390-2580	500-3000	1080	2380

\*\* Gear driven air ends available from E6 upwards.

TEMPEST	Recommended motor power		Capacity		Max. pressure		Net weight	
	kW	hp	m <sup>3</sup> /min	cfm	bar	psig	kg	lbs
T2	4-11	5-15	0,5-1,7	18-60	13	190	52	115
T3	4-15	5-20	0,5-2,3	18-80	13	190	68	150
T6	7,5-30	10-40	0,8-4,3	28-150	13	190	102	225
T12	15-45	20-60	2,0-7,2	70-250	13	190	180	400
T25	22-75	30-100	3,8-13	130-460	13	190	230	500

CT ELECTRIC DRIVE	Motor power		Capacity at nominal pressure*						Net weight	
			m <sup>3</sup> /min			cfm				
	kW	hp	8 bar	10 bar	13 bar	115 psig	145 psig	190 psig	kg	lbs
CT3B	7,5	10	1	0,85	0,7	35	30	25	165	360
CT3B	11	15	1,6	1,3	1	57	45	35	225	500
CT6B	18,5	25	2,8	2,4	1,8	100	85	63	315	700
CT12B	22	30	3,3	2,9	2,3	115	100	80	330	730
CT12B	30	40	4,5	4	3,3	160	140	115	420	930

CT HYDRAULIC DRIVE	Capacity at nominal pressure*						Net weight	
	m <sup>3</sup> /min			cfm			kg	lbs
	8 bar	10 bar	13 bar	115 psig	145 psig	190 psig		
CT3B8HA	1	0,8	0,6	35	28	21	150	331
CT6B23HA	3,5	3,2	2,7	124	113	95	300	661
CT12D28HA	4,5	4	3,4	159	141	120	420	926
CT12D45	6,8	6,8	5,8	240	240	205	380	838
+cooling unit							80	176

\* Capacity measured in accordance with Cagi Pneurop PN2CPTC2 and the following working pressures are used: 7,5 bar models at 7 bar, 10 bar models at 9 bar and 13 bar models at 12 bar.

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**Tempest;** Australia, European Union, Korea, Russia, United States

# Gardner Denver

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