FORM 13-10-211
1st Edition

GARDNER-DENVER
ELECTRA-SAVER® COMPRESSORS

Cut Your Compressor Operating Costs

THE ELECTRA-SAVER TURN-VALVE CAPACITY CONTROL SYSTEM PROVIDES BETTER OPERATING EFFICIENCY AT PART LOAD CONDITION THAN CONVENTIONAL THROTTLED INLET SCREW COMPRESSORS

This fact can save you many dollars on your electric bill. And the amount saved will continue to increase with today's escalating power costs.

Determine how much the Electra-Saver advantage can save you!

The Comparative Part Load Energy Chart, shown on the following page, illustrates the part load energy requirements of a conventional throttled inlet screw compressor versus a Gardner-Denver Electra-Saver turn-valve capacity control compressor.

To determine the amount an Electra-Saver can save YOU, complete the worksheet using percentages from the chart and the specifics of your application.

See for yourself why it makes **Dollars and Sense** to buy a Gardner-Denver Electra-Saver compressor.

SAVINGS CALCULATION WORKSHEET

	Conventional Throttled Inlet Screw Compressor	Electra-Saver® Turn-Valve Compressor
1. Identify Following Compressor and Application Conditions.		
Full load BHP of machines being compared	_____	_____
Motor efficiency of machines being compared	_____	_____
Percent of rated capacity at which compressor is expected to operate	_____	_____
Number of annual operating hours at that capacity	_____	
Cost per KWH	$ _____	
2. Convert full load BHP to full load **input** KW. CAUTION: Do not use "output" or "shaft" KW compressor ratings.		
$\frac{\text{Full load BHP} \times .746}{\text{Motor efficiency}}$ = Full load KW	$\frac{\quad \times .746}{\quad}$ = ___ KW	$\frac{\quad \times .746}{\quad}$ = ___ KW
3. Determine KW at capacity which each machine is expected to operate.		
Full load KW x percentage from comparison chart = KW at expected capacity	_____ x ___ = ___ KW	_____ x ___ = ___ KW

Example:
At 65% capacity
Use 91% for throttled inlet
Use 75% for turn-valve

4. Determine KW savings of the Electra-Saver compressor.

Throttled inlet KW usage	_____
Minus — Turn-valve KW usage	_____
KW savings with Electra-Saver	_____

5. Determine your annual dollar savings through use of the Electra-Saver compressor.

KW saved	x	Operating hours per year	x	Cost per KWH	=	Annual Savings with Electra-Saver Compressor
_____		_____		_____		_____

COMPARATIVE PART LOAD ENERGY REQUIREMENTS

Per Cent of Full Load Capacity	Approx. % of Full Load Energy Required	
	Turn-Valve	Throttled Inlet
90	93	98
85	88	96
80	85	95
75	81	94
70	78	93
65	75	91
60	72	90
55	70	88
50	67	87
45	65	86
40	64	84

For additional information, contact your local representative or Gardner-Denver Compressors.
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Sales and Service Offices in all principal cities.

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