Intelligence: Buran Ultrapulse

Total Filtration Management
Donaldson offers a wide variety of solutions to reduce your energy costs, improve your productivity, guarantee production quality and help preserve the environment.


Total Filtration Service
A comprehensive range of services especially designed to keep your production at peak performance and at the lowest total cost of ownership.

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Donaldson Refrigeration Compressed Air Dryer with Ultrapulse Control

| Volume flow in m³/h | 1008 | 1008 |
| Pressure drop in °C | 3°C | 3°C |
| Annual energy consumption in kWh | 4137 | 1728 |
| Annual energy costs in € | 491 | 298 |

The example for energy savings is based on:
Two shifts industrial production. 5 days a week (4,000 hours a year)
and energy costs of 8 Eurocents per kilowatt hour.

Technical alterations reserved (TS 09/2006).

Donaldson. And everything just got better.

Annual savings with the Microprocessor-based Ultrapulse Control

Buran Refrigeration Compressed Air Dryer

1. Compressed-air inlet
2. Compressed-air outlet
3. Condensate separator
4. Condensate drain
5. Refrigerant condenser
6. Refrigerant-to-air heat exchanger
7. Air-to-air heat exchanger
8. Refrigerant-to-air heat exchanger
9. Refrigerant condenser

Refrigeration Compressed Air Dryer Buran Ultrapulse

SD 0100
AP

Intelligence: Buran Ultrapulse

Ultrafilter

Donaldson.
Filtration Solutions

Intelligence: Buran Ultrapulse

Ultrafilter

Donaldson.
Filtration Solutions
The Refrigeration Compressed Air Dryer with Intelligence: Buran Ultrapulse

How the Buran functions?
- Compressed air entering the dryer is processed in the air-to-air heat exchanger by the outgoing cold compressed air. The processed air then passes through the refrigerant-to-air heat exchanger where it is further cooled in the required pressure dewpoint. The moisture in the compressed air condenses out and is collected and discharged automatically. Finally, the cold dehumidified air is conducted by the incoming compressed air. This saves energy and prevents moisture from forming beyond the dryer in the compressed air system.

The Multi Functional Display shows all relevant parameters:
- Current pressure dewpoint
- Operation mode Normal/Summer/Automatic
- Air consumption related to the whole life time
- Alarms signal
- Alarms history
- Maintenance necessary
- Operation status of the dryer
- Dryer specific parameters
- Current energy consumption

Technical Data Buran DC 0020 A - SD 1650 AP

<table>
<thead>
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<th>Type</th>
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<th>DC 0025 A</th>
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The graph shows an example of a compressed air consumption of one shift during the year. The full capacity is only required for a short time. Corrected dryer capacity = 1.14 t for a shift basis.