



ULTIMA compressors

Where less
is more.

The new gold standard
for efficiency



DH compressors

And nothing
is everything.

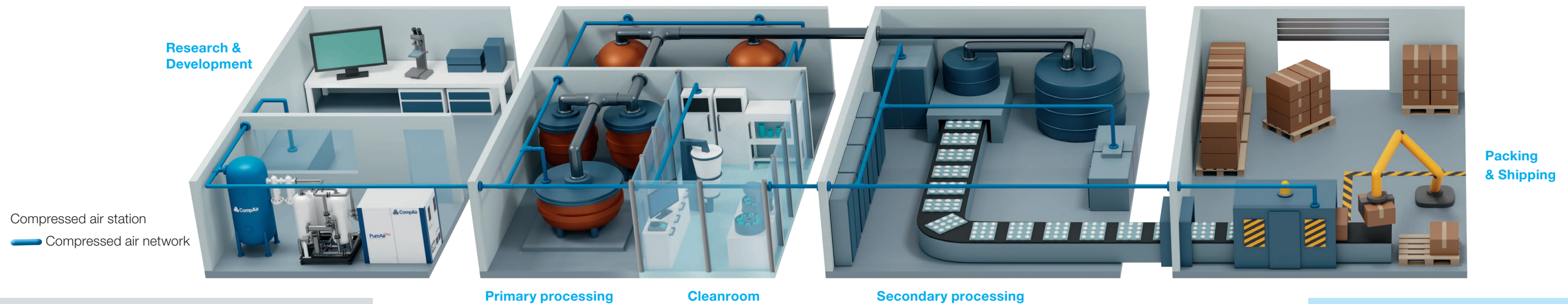
Compressed air
in its purest form

Innovative, oil-free
compressed air solutions for the
pharmaceutical industry

When quality counts, ...

... You can count on CompAir!

Pharmaceutical production



ULTIMA compressors: for an improved CO₂ balance

- ▷ **Digital drive concept.** Up to 13% savings versus traditional 2-stage oil-free technology
- ▷ **Best in class footprint.** 37% Smaller than industry standard
- ▷ ULTIMA air-cooled is by far **best-in-class in terms of noise level**
- ▷ **Greater planning reliability** – upgradeable between 75 & 160kw
- ▷ Optional **heat recovery** on both, air-cooled and water-cooled models
- ▷ **Hybrid cooling** – maximum flexibility with both air and water cooling
- ▷ Heat-of-compression **lowest pressure dew points without additional energy** consumption
- ▷ **Low** installation, maintenance and environmental costs
- ▷ Proven air-end excellence Made in Germany – **high performance year after year!**



- ▷ Six-year **extended warranty** via PureCare service programmes
- ▷ **Free iConn Compressor Service** as standard for proactive maintenance facilitates monitoring and connection to higher-level systems
- ▷ Fast validation, qualification and commissioning thanks to **uncomplicated installation**

Compressed air checklist

1. _____ bar (ü) required **operating pressure** at consumer
2. _____ bar (ü) **pressure loss** from generation to consumer
3. _____ m³/min required **compressed air volume** of all consumers without redundancy
4. **Redundancy** available reschedule
5. _____ m³/min required **compressed air volume** in low-load or weekend operation
6. **Operating time** 1-shift 2-shift 3-shift or _____ h/week _____ h/year
7. Desired **quality of compressed air** according to ISO8573-1 (Tick class or mark desired values)
8. What form of **monitoring** is desired/required?
 - Volume flow** **Pressure dew point**
 - Residual oil content**
 - Other _____
9. Does the **compressed air** have to be **qualified** or **audited** on a recurring basis?
10. Can waste heat (hot water) be used? _____ °C desired temperature level
On how many days per year can **heat recovery** be used? _____ d/a
11. **Air cooling** or **water cooling**
12. _____ V **supply voltage**
13. **Project Manager(s)** for
Installation _____
Plant engineering _____
 arrange a joint on-site appointment
14. **Compressor room** _____ x _____ x _____ m (L x W x H)
Location, accessibility and condition _____
(Drawing available)

Class	Particle			Moisture content and water	Total oil [10]
	0.1..-0.5 µm [1,6,9]	0.5..-1 µm [1,6,9]	1..-5 µm [1,6,9]		
<input type="checkbox"/> 0	According to definition and better than class 1				
<input type="checkbox"/> 1	≤ 20,000	≤ 400	≤ 10	≤ -70 °C	≤ 0.01 mg/m ³ [1,3]
<input type="checkbox"/> 2	≤ 400,000	≤ 6,000	≤ 100	≤ -40 °C	≤ 0.1 mg/m ³ [1,3]
<input type="checkbox"/> 3		≤ 90,000	≤ 1,000	≤ -20 °C	≤ 1 mg/m ³ [1,4]
<input type="checkbox"/> 4			≤ 10,000	≤ +3 °C	≤ 5 mg/m ³ [1,4]
<input type="checkbox"/> 5			≤ 100,000	≤ +7 °C	
<input type="checkbox"/> 6	≤ 5 mg/m ³			≤ +10 °C	
<input type="checkbox"/> 7	5..-10 mg/m ³		[1,7]	≤ 0.5 g/m ³	
<input type="checkbox"/> 8				0.5..-5 g/m ³	[1,8]
<input type="checkbox"/> 9				5..-10 g/m ³	[1,8]
<input type="checkbox"/> X	> 10 mg/m ³		[1,7]	> 10 g/m ³	> 5 mg/m ³ [1,4]

Checklist as PDF by e-mail to: sales@compair.com

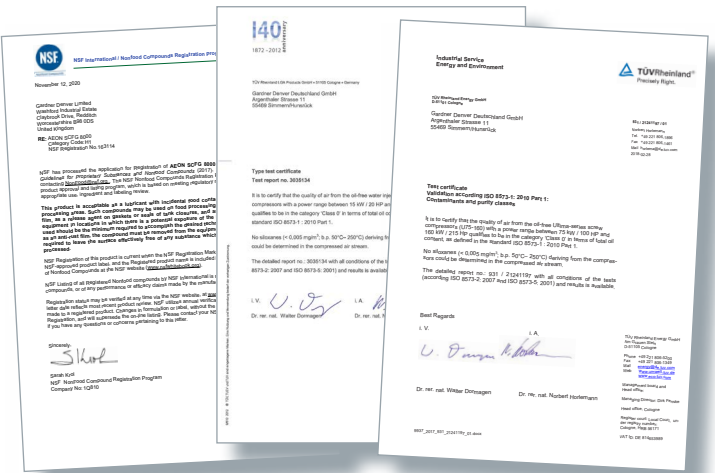
Reset form

DH compressors: Absolutely pure compressed air

- ▷ **High quality water injection lubricates, cools and seals** the compression process, maximising efficiency
- ▷ **No gearbox** means no need for associated oil lubrication
- ▷ **Low bearing loads** and low speeds mean **sealed-for-life bearings** can be used, requiring no oil lubrication
- ▷ The use of absolutely **no oil** negates the issues of contaminated air. **No oil – no risks.**
- ▷ **Single-stage, direct-driven compression element** maximises efficiency and minimises maintenance
- ▷ **Regulated speed technology** available to reduce energy costs
- ▷ **Fully packaged and silenced** enclosure reduces noise and simplifies installation



- ▷ Six-year **extended warranty** via PureCare service programmes
- ▷ **Free iConn Compressor Service** as standard for proactive maintenance facilitates monitoring and connection to higher-level systems
- ▷ Fast validation, qualification and commissioning thanks to **uncomplicated installation**



Certifications

- Validated compressed air quality according to ISO 8573-1:2010 [-:-:0] Total oil content: Class 0
- Validated silicone-free compression

Technical data

Compressor	Model	Operating pressure (Min. – Max.) [bar ü]		Cooling method	Engine power [kW]	Volume flow (Min. – Max.)		Sound pressure level [dB(A)] ²⁾	Dimensions L x W x H [mm]	Weight [kg]	
		8 bar ü ¹⁾	10 bar ü ¹⁾			8 bar ü ¹⁾	10 bar ü ¹⁾				
Ultima™ air or water cooled 	U75	4–10		Air	75	6.7–11.9	7.7–9.9	64	3244 x 1394 x 1992	3360	
		4–10		Water							90
	U90	4–10		Air	90	6.7–14.9	7.7–12.7	65	3244 x 1394 x 1992	3360	
		4–10		Water							110
	U110	4–10		Air	110	6.7–18.5	7.7–16.3	65	3244 x 1394 x 1992	3360	
		4–10		Water							132
	U132	4–10		Air	132	6.7–22.2	7.7–19.9	66	2044 x 1394 x 1992	2750	
		4–10		Water							160
	U160	4–10		Air	160	6.7–23.9	7.7–23.6	69	2044 x 1394 x 1992	2750	
		4–10		Water							
Compressor	Model	Operating pressure [bar ü]		Cooling method	Engine power [kW]	Volume flow		Sound pressure level [dB(A)] ²⁾	Dimensions L x W x H [mm]	Weight [kg]	
		Min.	Max.			8 bar ü ¹⁾	10 bar ü ¹⁾				
DH series fixed speed, air or water cooled 	D15H	8	10	Air	15	2.30	1.80	68	1345 x 880 x 1612	672	
		8		10							Water
	D22H	8		10	Air	22	3.50	2.89	68	1345 x 880 x 1612	691
		8		10	Water						
	D37H	8		10	Air	37	5.86	5.04	71	1722 x 920 x 1659	960
		8		10	Water						
Compressor	Model	Operating pressure [bar ü]		Cooling method	Engine power [kW]	Volume flow		Sound pressure level [dB(A)] ²⁾	Dimensions L x W x H [mm]	Weight [kg]	
		Min.	Max.			Min. ¹⁾	Max. ¹⁾				
DH series speed control, air or water cooled 	D15H RS	5		10	Air	15	0.32	2.34	67	1345 x 880 x 1612	687
		5		10	Water						
	D22H RS	5		10	Air	22	0.68	3.45	67	1345 x 880 x 1612	687
		5		10	Water						
	D37H RS	5		10	Air	37	1.09	6.87	71	1722 x 920 x 1659	995
		5		10	Water						
	D50H RS	5		10	Air	45	1.17	7.64	73	2158 x 1412 x 1971	1570
		5		10	Water						
	D75H RS	5		10	Air	75	1.72	11.39	75	2158 x 1412 x 1971	1890
		5		10	Water						
	D110H RS	5		10	Air	110	3.04	18.55	72	2158 x 1412 x 1971	2200
		5		10	Water						

¹⁾ Measurement and specification of data according to ISO 1217, Edition 4, Annex C & Annex E within the following tolerances: Intake pressure 1 bar a; Intake temperature 20° C; Humidity 0 % (dry)

²⁾ Free-field sound measurement according to ISO 2151, tolerance ± 3dB (A)