

# Product Specification Clause

## Amicus Altus LAHP-650HTR290 Air to Water Heat Pump

Lochinvar Ltd  
8 Lombard Way  
The MXL Centre, Banbury  
Oxon, OX16 4TJ

+44 (0) 1295 269981  
info@lochinvar.ltd.uk

[www.lochinvar.ltd.uk](http://www.lochinvar.ltd.uk)

Description	Unit	Specification	Notes
Design external air temperature	°C	0	Change for project requirements
Design flow temperature	°C	65	Change for project requirements
Output at design temperatures	kW	666	Change for project requirements
Minimum external operating temperature	°C	-20	
Number of heat pumps in the cascade		10	
Cascade downturn	Ratio	10:1	
Compressor downturn	Ratio	20:1	
Maximum flow temperature	°C	70	
SCOP at 35°C flow		3.95	Average weather conditions
SCOP at 55°C flow		3.32	Average weather conditions
SCOP at 65°C flow		2.76	Average weather conditions
Refrigerant GWP		≤3	Ultra low GWP natural refrigerant
Refrigerant ODP		0	
Refrigerant leak detection		Yes	
Double refrigerant safety valves		Yes	
Stainless steel user heat exchanger with flow switch		Yes	
Antifreeze kit		Yes	
Refrigerant pressure gauges		Yes	
Crane lifting hooks		Yes	
Built in primary pump		Yes	
Cascade pipework header kit to rear		Yes	
Cascade control featuring		Yes	
o BMS Fault signal		Yes	
o BMS on/off		Yes	
o Hot water priority		Yes	
o Direct weather compensation		Yes	