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NESS *Light-ends removal systems*

Product overview and performance comparison

There are fundamentally **2 types of systems**:

Passive systems use gravity to return the oil to the thermal oil system and are more suitable for **new thermal oil systems under certain spatial conditions**.

Active systems return the oil to the thermal oil system via its own pump and are **suitable for new systems, can be retrofitted and flexibly integrated into thermal oil systems**.

Type	**Passive system** using gravity		**Active system** using pump with VSD	
Requirements	**Positioning** >2 m above highest point (expansion tank) for gravity to work		**Additional required supply** Nitrogen, cooling water, compressed air	
Inlet pressure	>1 bar + static height of expansion tank + overpressure of N2- pressure superposition <10 bar at connection point		>2 bar, <4 bar on the connection point	
Max. outlet pressure	-		3 bar on the connection point	
Oil temperature on connection point	≥250 °C		≥250 °C	
Cooling method	Air cooled Ambient temperature <15 °C Peak <30 °C	Water cooled Cooling water inlet <25 °C (depending on ambient parameter)		
Product	**NLPA150** Small systems smaller 20,000 liters	**NLPA250** Small to medium systems 20,000 to 110,000 liters	**NALD250** Small to medium systems up to 160,000 liters	**NALD250-i** Small to big systems up to 400,000 liters
Recommended for	New systems	New systems	Perfect for new systems and retrofitting	Perfect for new systems, retrofitting and rotating operation on several thermal oil systems

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