Premier™ III Series Hydraulic Pumping Units
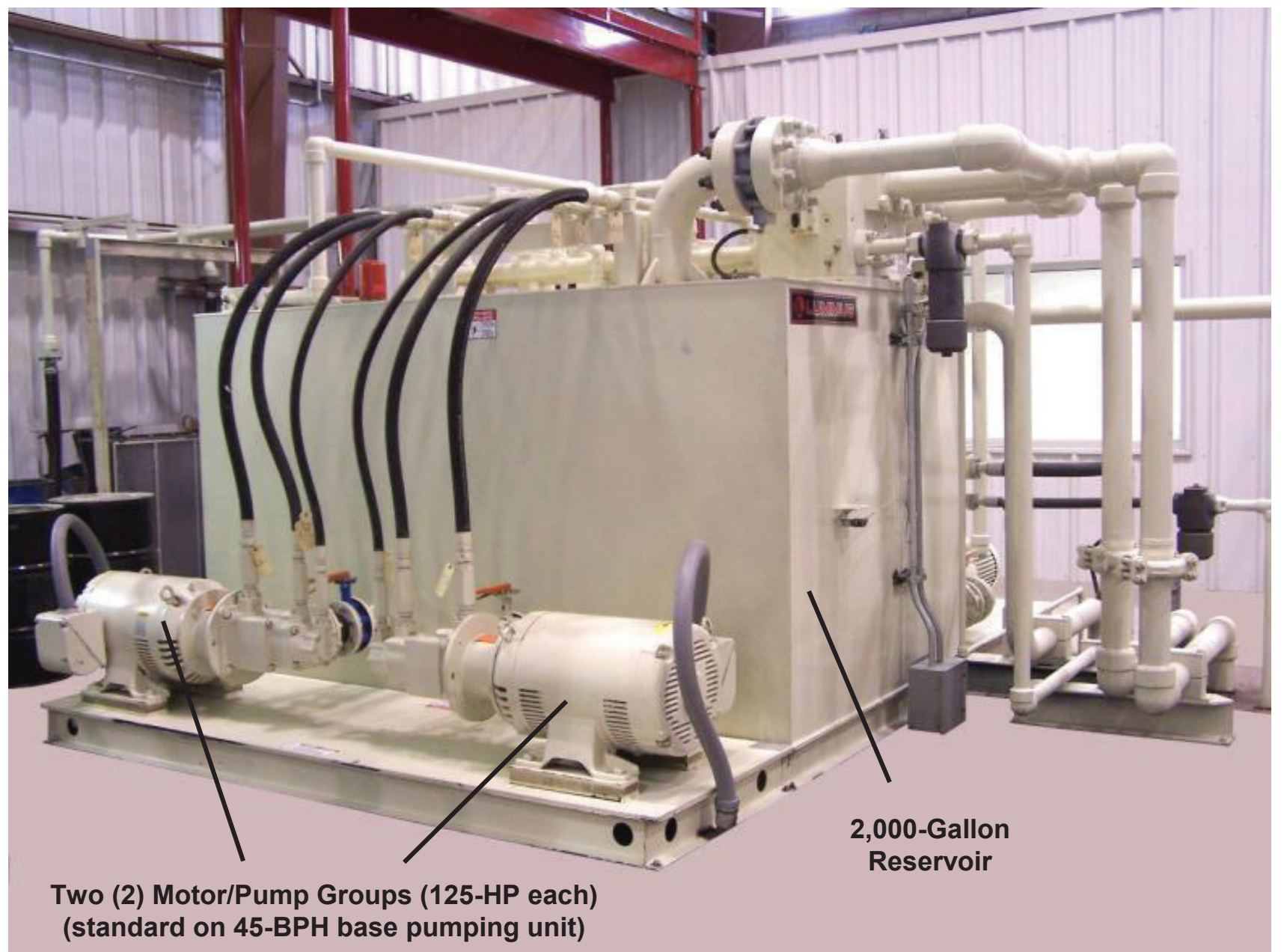
Ultimate Flexibility of Design

The Premier™ III Series of hydraulic pumping units are the latest in Lummus' product line of flexible-design hydraulic power sources for up-packing Lummus presses. Available as standard equipment on new Lummus Premier™ II (16" diameter bottom ram) and Premier™ III (18" diameter bottom ram) Dor-Les® up-packing presses, the fully-configured all-in-one Premier™ III hydraulic units (like the one shown in the photos at right) provide control for all the hydraulic applications (hydraulic pusher, hydraulic tramper, and main press top and bottom cylinders).

Designed for high-volume/lower pressure hydraulic circuits (using 16" or 18" diameter bottom rams), the Premier™ III hydraulic pumping unit is a flooded-suction system (all pumps located below oil level and fed by gravity), featuring a 2,000-gallon reservoir, onto which floor-mounted pump/motor skid assemblies are attached on opposite sides. The base model pumping unit press circuit is comprised of two (2) 125-HP motor/pump groups and is rated at 45 bales per hour (BPH) capacity. Addition of an optional 125-HP motor/pump group yields 60-BPH capacity, while an optional fourth 125-HP motor/pump group yields 67-BPH (18" ram) or 70-BPH (16" ram). The hydraulic tramper circuit flow is powered by a 75-HP motor, while the hydraulic pusher circuit uses a 25-HP motor. All Premier™ III pumping units feature a filtration/cooling flow circuit, powered by a 20-HP motor (oil cooling system is purchased separately).
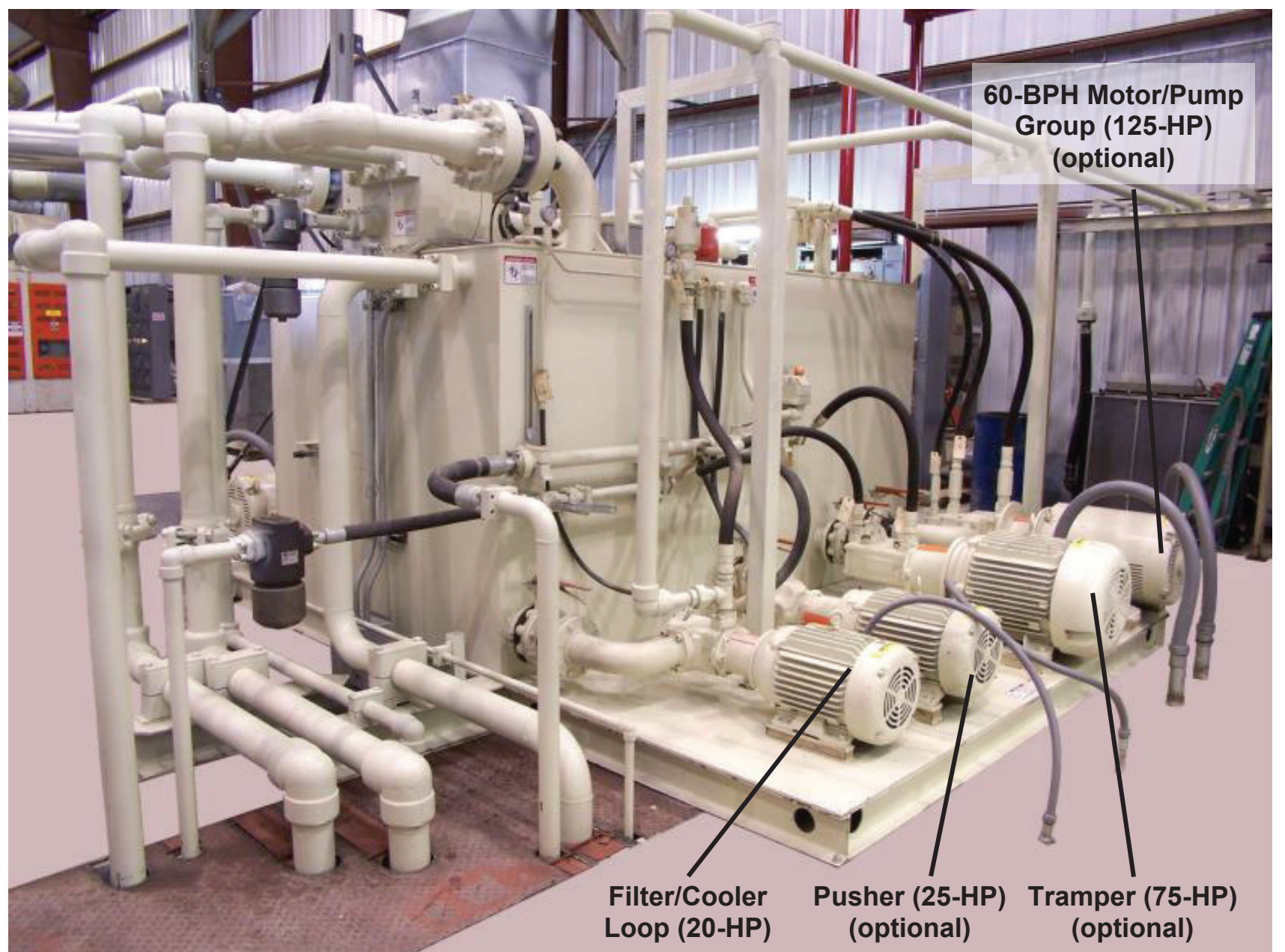
Existing Press Upgrade Configurations

Because many older-model up-packing Lummus presses (E.E. Dor-Les® and Gin Dor-Les®), originally equipped with the H-195-UDL and H-195 hydraulic units, have field-converted to 16" diameter bottom rams (to operate at lower hydraulic system pressures), these presses can be upgraded to new Premier™ III hydraulics. Increased obsolescence of H-195 pumping unit components was a driving factor in the introduction of this new pumping unit series. Regardless of whether tramper and pusher circuit motor/pump groups are furnished, older presses can be upgraded to the latest Lummus press hydraulics. In most cases, any existing 125-HP electrical switchgear can be utilized, since the press side hydraulics of the Premier™ III pumping unit feature 125-HP motors.

For existing E.E. Dor-Les® and Gin Dor-Les® presses that are still equipped with a 14" diameter bottom ram (requiring a high-pressure hydraulic circuit for final bale compression), the Premier™ III hydraulic unit can be equipped with an optional 125-HP motor/high-pressure pump circuit (for an additional cost).

Two (2) Motor/Pump Groups (125-HP each) (standard on 45-BPH base pumping unit)

2,000-Gallon Reservoir

Premier™ III Series Pumping Unit – Press Side

60-BPH Motor/Pump Group (125-HP) (optional)

Filter/Cooler Loop (20-HP)

Pusher (25-HP) (optional)

Tramper (75-HP) (optional)

Premier™ III Series Pumping Unit – Tramper Side

Specifications

Reservoir capacity:	2,000 gallons
Main Press Circuit Motors (45-BPH base model):	125-HP (2)
Filtration/Cooling Circuit Motor:	20-HP
60-BPH Press Circuit Motor (optional):	125-HP
67-BPH Press Circuit Motor (optional):	125-HP
Hydraulic Pusher Circuit Motor (optional):	25-HP
Hydraulic Tramper Circuit Motor (optional):	75-HP

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