

Nyle Heat Exchangers

Nyle's focus has always been to support all Kiln owners and improve efficiency and productivity in all avenues of lumber drying. Our dynamic heat exchangers help recover energy lost during the drying process of conventional kilns.

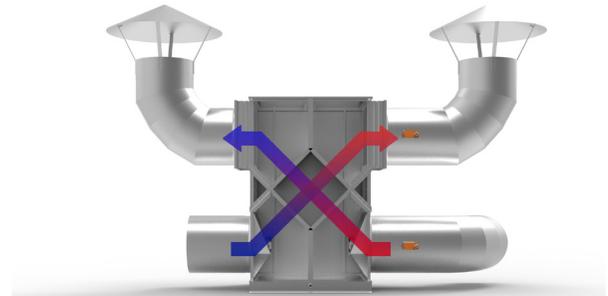
Our HRV systems serve to supplement the existing heating system in conventional kilns, offering a solution to owners who may be exhausting their boilers capacity. This simple system promotes increased production and efficiency while providing an alternative to the expense of installing an additional boiler.

Recovering Energy with Heat Exchangers

Heat loss through venting is one of the most notable downfalls of a conventional kiln. With venting being necessary to remove the excess moisture, you are stuck with a very large energy expenditure.

In some cases heat loss causes the kilns control system to call for the heating system, to bring the temperature back up after venting. This heat expenditure can greatly decrease your efficiency and increase your energy costs.

Nyle's HRV System offers a means to reclaim a portion of this lost heat. With the use of a heat exchanger we can transfer a large portion of the outgoing vented air's energy to the incoming air. This process utilizes energy that would otherwise be wasted and minimizes the need for "reheating" while reducing overall fuel consumption by between 15-20%!



Features and Specifications

Unit	HRV 25	HRV 50	HRV 75
Venting Capacity	2500 CFM	5000 CFM	7500 CFM
Potential Reduction In Fuel Consumption	15%-20%	15%-20%	15%-20%
Nominal Heat Exchanger Efficiency	57%	57%	57%
"Winter" Heating Capacity (55°, 70% RH Ambient)	152751 BTU/hr	305502 BTU/hr	458253 BTU/hr
"Summer" Heating Capacity (95°, 47% RH Ambient)	58284 BTU/hr	116568 BTU/hr	174852 BTU/hr
Intake/Exhaust Fan Horsepower (at 1800 RPM)	2HP	3HP	5HP
Static Pressure	2" (at 2500 CFM)	2" (at 5000 CFM)	2" (at 7500 CFM)
Voltage	230/460	230/460	230/460
Venting BF Capacity (Slow Drying Hardwoods)	30 MBF	60 MBF	90 MBF
Venting BF Capacity (Mid-grade Hardwoods)	20 MBF	40 MBF	60 MBF
Venting BF Capacity (Fast Drying Softwoods)	10 MBF	20 MBF	30 MBF

* HRV sizing may depend on typical ambient temperatures, starting MC%, drying schedule & drying methods. Call Nyle for more details.