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**DATE:** Oct 16, 2017

**TO:** Derek & Kim Lewis,  
4070 Gulfview Dr.  
Nanaimo, B.C.  
V9T-6B4  
Phone 250-618-5790

**Email:** [derlewis@shaw.ca](mailto:derlewis@shaw.ca)

**Re. Potential heat pump re-location issues 4070 Gulfview Drive,**

To whom it may concern,

As per customer phone request I visited the Lewis residence to review original outdoor unit location @ side yard of home. Customer requested feasibility report & any potential system performance & safety issues which could arise by re-locating outdoor unit from original location to rear of home (as per current city by-laws).

# 1) To meet bylaw rear yard & side yard clearances the only feasible location available would be @ rear yard beneath stairs & in front of lower floor window. Heat pumps requires minimum 4 ft. clearance above out door unit for adequate air flow so the stairway (to deck) clearance is not sufficient & will adversely affect performance of heat pump system & also cause potential icing & rot issues on stairs & deck when unit defrosts during winter months. (due to defrost steam discharge).

# 2) Rear of home location (same, as described above) will also partially block window & potential fire escape route & is not recommended.

#3) Further locating outdoor unit any farther back (@ rear slope beyond yard in shrubs) would not be recommended as extending refrigerant line sets & electrical wiring beyond recommended optimum length & adversely affect system performance (& warranty).

Recommendation: I suggest installation of a fence panel or 2-3 cedar shrubs between unit & neighbor's home as was discussed with home owner & my self during my visit & was also suggested by the neighbor (complainant) as well during phone call she made to me Oct. 16<sup>th</sup>.

Terry Corsie, (Owner)  
The Comfort Group Heating Corporation.  
250-758-8224